SUBSISTENCE HARVESTS IN SIX KODIAK ISLAND BOROUGH COMMUNITIES, 1986

by

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ABSTRACT

This report summarizes the results of a household survey conducted as part of a cooperative project between the Division of Subsistence, Alaska Department of Fish and Game, and the Kodiak Area Native Association (KANA) in 1987. In total, 211 household interviews took place in the Kodiak Island Borough communities of Akhiok, Karluk, Larsen Bay, Old Harbor, Ouzinkie, and Port Lions. The interviews were conducted by local community residents who had been hired by KANA and trained by the Division of Subsistence. The subsistence harvest and use data contained in the report pertain to the 1986 calendar year.

The harvest survey results, reported in a series of tables and figures for each community, include estimates of harvest quantities, levels of participation in harvest activities, the average range of resource uses per household, and salmon harvests by gear type. The research found that virtually every sampled household used subsistence resources in 1986 and was involved in subsistence harvest activities. As measured in pounds usable weight, salmon contributed the most to the subsistence harvest in all six communities, but substantial quantities of other fish, land mammals, marine invertebrates, birds, wild plants, and, in some communities, marine mammals, were taken as well. Resource harvests in all six villages were diverse. Estimated per capita harvest quantities were, for the most part, consistent with findings for other small Alaska Native communities of Southcentral and southwest Alaska.

The research also documented notably lower subsistence harvests in three communities (Akhiok, Karluk, and Larsen Bay) in 1986 than had been estimated for 1982/3 by another cooperative project between KANA and the division. Reasons for these apparent declines are uncertain. They may be the product of sampling procedures or represent annual fluctuations in subsistence activities. In contrast, harvests in the other three communities (Old Harbor, Ouzinkie, and Port Lions) were very similar in both study years. Additional research will be necessary to demonstrate long-term trends in subsistence patterns in these six communities.

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PREFACE

This **report** contains the results of a household harvest survey jointly conducted by the Division of Subsistence of the Alaska Department of Fish and Game and the Kodiak Area Native Association in 1987. A review draft of the report was completed in late 1989. The present version was largely completed in 1999. Final completion and printing of the report have been delayed due to other staff assignments, particularly subsequent household surveys undertaken in Kodiak Island Borough communities following the *Excon* Valdez oil spill of March 1989. The data in this report, which pertain to 1986, have previously been published in the Division of Subsistence Community Profile Database (CPDB) and have also appeared in several conference papers and other reports. The primary purpose of preparing this report is to describe the research methods used to collect the 1986 data and to briefly compare the findings with those of a similar study pertaining to 1982/83. The reader should consult other Division of Subsistence technical papers and the CPDB for harvest data for 1989 and subsequent years.

INTRODUCTION

Background

In 1983, the Kodiak Area Native Association (KANA) and the Division of Subsistence of the Alaska Department of Fish and Game collaborated in a research project which collected information on subsistence harvests and uses in eight Kodiak Island Borough communities for a 12-month study period from June 1, 1982 through May 31, 1983 (KANA 1983; ADF&G 1985a, 1985b; Schroeder et al 1987; Scott et al. 1992. 1993). That research produced information on harvest quantities, levels of household participation in harvest activities and sharing activities, and maps of resource harvest areas.

In October 1986, KANA contacted the division about a household survey which it planned to conduct in the six borough villages. These communities are Akhiok, Karluk, Larsen Bay, Old Harbor, Ouzinkie, and Port Lions (Fig. 1). KANA suggested that this survey was an opportunity to update the 1982/83 data and requested the division's assistance in designing the subsistence use and harvest questions, training interviewers, and analyzing the survey results. In November 1986, division personnel met with KANA's Overall Economic Development Planning (OEDP) committee. A review of the draft questionnaire was completed and the committee's endorsement of the project was obtained. The division and KANA then entered into a memorandum of understanding which specified each organization's responsibilities in the cooperative study.

Division personnel traveled to Kodiak in January 1987, where training sessions were held with interviewers from each community hired by KANA. Interviewing began in February 1987, with data collected on harvest activities for the previous calendar year (1986): By August 1987 the division had received the completed survey forms, at which time data coding and computer entry occurred. During the division's review of the surveys, a number of questions arose which required consultation with KANA to resolve. Unfortunately, because of personnel changes at KANA, no one was available to address these problems and, consequently, data analysis was delayed.

In 1989, the division reviewed the data again, made a series of data management decisions, and decided to publish the results of the 1987 survey in the Community Profile Database (Scott et al. 1992) and

in a technical paper because of the current interest in Kodiak subsistence harvest **data.** A draft of this report has been reviewed by KANA and the revised final report is being released with that organization's endorsement (Appendix A).

As discussed in more detail in the methods section, the 1986 survey data must be understood with several important limitations in mind. Sample sizes were low in some cases and households were not randomly selected. This raises the question of how representative the survey data are for the communities overall. Also, as noted above, division staff had to resolve ambiguities with some survey forms without consultation with the **interviewers**. This may have led **to** an underestimation of harvests in some villages (see below). Because of these questions, this report includes revised summaries of the 1982/83 data for comparisons (Appendix B). The 1988 study was conducted with a larger sample of households in most of the villages and may be more representative of community harvest patterns. In combination, we **believe** these two sets of data provide a good overview of subsistence harvest patterns in the six communities. We caution however, that these two years of data from samples of village households can only be understood as a beginning of documentation of subsistence harvests in the Kodiak island Borough. Additional study is necessary to understand such factors as between-year variability in harvest levels or long-term trends in these harvest activities.

Objectives

Objectives of the research related to fish and wildlife harvests included the following for the communities of Akhiok, Karluk, Larsen Bay, Old Harbor, Ouzinkie, and Port Lions:

- 1. Estimates of the percentage of community households which used, attempted to harvest, harvested, received, or gave away each wild fish, game, or plant resource in 1986;
- 2. Estimates of household harvest quantities for each resource for 1986 in numbers of fish or animals, gallons, or other appropriate measures;

¹ As the final version of this report was being prepared in December 1990, the division was completing analysis of a third harvest survey conducted in the six borough villages for the 1989 calendar year. Subsequent reports will include comparisons of the data from 1983, 1986, and 1989.

- 3. Estimates of salmon and other fish and marine invertebrate harvests by gear type, including numbers of these resources removed from commercial catches for home use; and
- 4. Household demographic characteristics, such as size and ethnicity.

METHODS

Data Gatherina Instrument

A questionnaire administered in person, usually in the homes of community residents, was the primary data gathering instrument. The resource use and harvest sections of the questionnaire followed the format of other division survey forms used in other Southcentral and southwest Alaska communities. Sections of the form pertain to each major resource category (e.g. salmon, game, marine mammals), with separate sections on commercial fishing activities and household demography. The instrument was pretested among the interviewers, all of whom were village residents employed by KANA, in January 1987, and then revised before the village fieldwork began.

Sampling

The goal of the research was to conduct an interview with members of each household in all six villages. Interviewers were instructed to compile a list of all year-round households in the communities in consultation with village officials and other knowledgeable residents. As shown in Table 1, the following sample sizes were achieved: Akhiok, 35.3 percent; Karluk, 70.4 percent; Larsen Bay, 71.2 percent: Old Harbor, 37.0 percent: Ouzinkie, 54.8 percent; and Port Lions, 72.2 percent. As shown in Table 1, with the exception of Port Lions and Ouzinkie, the percentage of the households surveyed for the 1986 study year was lower than that achieved for 1983. Although not known for certain, unavailability of households and refusals probably explain why larger sample sizes were not achieved for 1986. Thus, the samples for 1986 must be considered non-random and opportunistic.

Data Analysis and Limitations

Division of Subsistence staff coded the data from the survey forms and the data were entered for computer analysis. Harvest quantities in numbers of fish, animals, or gallons were converted into pounds usable weight in order to measure and compare the subsistence production of each sample. Factors used for these conversions appear in Appendix C.

Data analysis encountered several obstacles, primarily resulting from ambiguous responses on the survey forms that had not been edited before transmittal to the division's data management staff. Because of personnel changes at KANA, it was not possible to **clarify** certain questions with the field staff itself. Consequently, division staff had to perform substantial editing prior to the data analysis. Primary areas of concern were:

- 1. On some surveys, respondents indicated using and receiving a resource and reported a quantity, but left the "attempt to harvest" cell blank. In all cases, we have interpreted the quantity as pertaining to use (that is, the resources were received from other households) and have consequently coded harvest as zero. If we were in error in this interpretation, it may have reduced reported per capita harvests for some villages.
- 2. In some cases, harvest reporting units were unclear. For example, the form asked for salmon harvests in numbers of fish, but in some cases, the harvest quantity was so much higher than those of other respondents, it appeared that pounds of fish rather than numbers were being reported. In other cases where buckets of marine invertebrates was the requested reporting unit, it appeared that-number of individual resources was-reported instead (e.g. 100 clams rather than 2 buckets). In almost all of these cases, the more conservative harvest quantity was coded for analysis.
- 3. Because of concerns regarding confidentiality, the division did not receive copies of the original lists of village households, nor did we receive an estimate from the field workers of the percentage of each village's households that were surveyed. In order to report sampling fractions, therefore, we have estimated the total number of households in each community at the time of the survey by

dividing the 1986 population as reported by the Alaska Department of Labor (1989) by the average household size of the surveyed households.

Despite these problems, we believe that the survey results, if used in combination with the **1982/83** data, provide reasonable estimates of harvest levels, levels of participation, and species used in most communities in 1986. As will be noted again below, there are both similarities and differences in the **1982/83** and 1986 **survey** results. Possible explanations for these contrasts are discussed in the final section of this report.

One exception to this general level of confidence concerns the results for Akhiok. Only a 35.3 percent sample (12 of 34 households) was achieved, in comparison with 78 percent in 1983. The results of the two surveys differ more markedly for Akhiok in terms of harvest quantities and harvest composition than for any other community. It is possible that households that harvest large quantities of subsistence products were underrepresented in the sample, but this is not to discount the possibility that a real change occurred. Only further **harvest** data collection could remove the uncertainty about the Akhiok results.

HARVEST PAT-TERNS IN 1986

Akhiok

Only 12 of the approximately 34 households in Akhiok were interviewed about their 1986 subsistence harvests. This is 35.3 percent sample of the community's households. As noted above, there are reasons to believe that the results of these interviews may not be representative of the community overall. The mean household **harvest** of 581.7 pounds (Table 2) and the per capita harvest of 162.4 pounds were the lowest of the six samples and, as discussed below, substantially lower than those reported for **1982/83** when Akhiok's per capita take of wild foods (519.5 pounds) was second only to Karluk among Kodiak communities. In 1986, salmon made up 68.5 percent of the Akhiok sample's **harvest** (Fig. 2), by far the most of any resource category. Game was second with 19.2 percent of the **harvest**, followed by marine invertebrates (6.2 percent), other fish (4.3 percent), marine mammals (0.9 percent), birds and eggs (0.6

percent), and wild plants (0.6 percent). The resource taken in the greatest quantity was **coho** salmon (182.8 pounds per household), followed by sockeye salmon (160.5 pounds), and deer (111.8 pounds) (Table 2). Overall, 91.7 percent of the sampled households in Akhiok used wild foods in 1986, 83.3 percent attempted a harvest, and 83.3 percent were successful harvesters. Also, 33.3 percent of the households received gifts of fish and game from others and 58.3 percent gave away wild resources (Table 2). On average, households in Akhiok used 8.00 kinds of wild resources in 1986 (Table 3). This was, by far, the lowest average of the six **study** communities. Also, Akhiok househdds attempted to **harvest** 6.92 kinds of resources, harvested 6.75 kinds, received 1.67 kinds, and gave away 3.92 kinds.

Karluk

The 19 surveyed Karluk households (70.4 percent of the estimated number of households in the community) averaged a harvest of **1,540.6** pounds of wild foods in 1986 (Table 4). This is a per capita harvest of 385.2 pounds, third highest among the six samples. The harvest composition was as follows (Fig. 3): salmon, 66.2 percent: game, 11.7 percent; other fish, 11.0 percent: marine mammals, 6.6 percent; marine invertebrates, 3.2 percent: birds and eggs, 0.7 percent: and plants, 0.5 percent. Resources which contributed the most to the harvests included sockeye salmon (760.7 pounds per household), deer (140 pounds), **coho** salmon (129.6 pounds), halibut (114.3 pounds), and pink salmon (67.4 pounds). Every Karluk household in the sample used and harvested wild foods in 1986. Also, 94.7 percent of the households received subsistence products from other households and 78.9 percent gave resources away (Table 4). As shown in Table 3, Karluk households, on average, used 13.74 kinds of wild resources in 1986, very similar to the averages of Larsen Bay, Old Harbor, and Port Lions. These households attempted to harvest an average of 8.21 types of wild resources, harvested 8.11 kinds, received 6.63 kinds, and gave away 4.26 kinds.

Larsen Bay

The 37 households interviewed in Larsen Bay make up about 71.2 percent of the estimated community total. The average harvest of wild foods for these households was 683.4 pounds in 1986, 209.0

pounds per capita (Table 5). This harvest level ranked fiih among the six samples. Salmon made up the largest portion of the harvest, 48.7 percent (Fig. 4), followed by game (18.9 percent), other fish (17.1 percent), marine invertebrates (11.5 percent), wild plants (1.7 percent), marine mammals (1.6 percent), and birds and eggs (0.4 percent). Indivilual resources which contributed the most to the community's 1986 harvest were sockeye salmon (173.9 pounds per household), deer (112.8 pounds), coho salmon (107.8 pounds), halibut (89.5 pounds), and butter clams (34.6 pounds). Overall, 97.3 percent of the sampled Larsen Bay households used wild foods in 1988, 83.8 percent hunted, fished or gathered, and 81.1 percent were successful harvesters. Also, 86.5 percent of the households received subsistence products from other households and 59.5 percent gave resources away (Table 5). On average, households in Larsen Bay used 13.84 kinds of wild resources in 1986, the second-highest average among the six study communities but very similar to that of Karluk, Old Harbor, and Port Lions. Also, these households attempted to harvest 7.59 kinds of wild resources, harvested 7.32 kinds, received 8.68 types, and gave away 3.32 kinds.

Old Harbor

Forty-four households were interviewed in Old Harbor, about 37 percent of the estimated community total. This sample averaged a harvest of 1,346.7 pounds of wild foods per household in 1986, with a per capita harvest of 423.2 pounds (Table 6). This was the largest per capita harvest of the six samples. The resource category making up the largest portion of the harvest was salmon (44.3 percent) (Fig. 5), followed by marine mammals (25.1 percent), game (14.2 percent), other fish (9.8 percent), marine invertebrates (5.5 percent), birds and 'eggs (0.8 percent), and wild plants (0.3 percent). Resources which were taken in the largest quantities were sea lion (270.9 pounds per household), coho salmon (269.5 pounds), deer (160.8 pounds), chum salmon (140.6 pounds), and halibut (101.3 pounds). In terms of participation in harvest activities, 100 percent of the interviewed households in Old Harbor used wild foods in 1986, 97.7 percent attempted hawests, 97.7 percent were successful hawesters, 81.8 percent received resources, and 79.5 percent gave resources away (Table 6). As reported in Table 3, the average number of resources used per household in Old Harbor in 1986 was 13.66, very similar to the averages for Karluk,

Larsen Bay, and Port Lions. On average, Old Harbor households attempted to harvest 10.14 kinds of wild resources, harvested 9.89 kinds, received 7.50 kinds, and gave away 5.36 kinds.

Ouzinkie

The 34 interviewed households in Ouzinkie (54.8 percent of the estimated number of households in the community) harvested an average of **1,267.7** pounds of wild foods in 1986 (**Table** 7). The per capita harvest was 402.8 pounds, second only to Old Harbor among the six samples. Salmon made up 47.8 percent of this harvest, more than any other resource category (Fig. **6)**, followed by game (17.4 percent), other fish (17.0 percent), marine mammals (7.4 percent), marine invertebrates (7.0 percent), birds and eggs (2.2 percent), and wild plants (1.2 percent). Specific resources which contributed the most to the community's harvests were **coho** salmon (277.3 pounds per household), sockeye salmon (184.2 pounds), deer (180.1 pounds), halibut (101.5 pounds), and chum salmon (88.2 pounds). Overall, 94.1 percent of the sampled Ouzinkie households used wild foods in 1986. while 91.2 percent hunted, fished or gathered, 91.2 percent were successful harvesters, 79.4 percent received gifts of wild foods, and 47.1 percent shared subsistence foods with other households (Table 7). With an average number of resources used per household of 17.00, Ouzinkie had the most diverse range of resource use in 1986 of any of the six study communities (Table 3). **On** average, Ouzinkie households attempted to **harvest** 13.32 kinds of resources, hawested 12.53 kinds, received 8.19 types, and gave away 5.06 kinds.

Port Lions

Sixty **five** households were interviewed in Port Lions, about 72.2 percent of the estimated community total. These households had an average subsistence harvest of 1,096.7 pounds in 1986 (Table 8). The per capita harvest was 333.1 pounds, fourth among the six samples. The harvest composition was as follows. Salmon was the resource category contributing the most pounds to the total harvest (48.0 percent) (Fig. 7), followed by game (22.1 percent), other fish (16.5 percent), marine invertebrates (9.7 percent), marine mammals (1.9 percent), wild plants (1.1 percent), and birds and eggs (0.6 percent). The resources harvested in the largest quantities were **coho** salmon (252.6 pounds per household), sockeye salmon

(156.1 pounds), deer (151.6 pounds), halibut (130 pounds), and elk (51.9 pounds). Of the 65 households in the Port Lions sample, 96.5 percent used wild foods in 1986, 93.8 percent attempted a harvest in 1986, 93.8 percent successfully harvested fish, game, or plants, 86.2 percent received wild foods from other households, and 75.4 percent gave wild resources away (Table 8). On average, Port Lions households used 13.00 kinds of wild resources in 1986, about the same as Karluk, Larsen Bay, and Old Harbor (Table 3). Also, these households **tried** to harvest 9.91 kinds of wild resources, harvested 9.28 kinds, received 5.78 kinds, and gave away 4.38 kinds.

SOURCES OF SALMON, 1986

Salmon hawests in 1986 for each community were reported on the suwey form from three sources: removal from commercial catch, subsistence methods (set nets and "other subsistence methods", probably beach seining for the most part), and rod and reel. This **was the** first attempt to quantify the amount of salmon removed from commercial harvests for local use in Kodiak Borough communities. As reported in Tables 9 through 14, sources of salmon varied between communities and between species. In Akhiok, for example (Table 9; Fig. 8), almost all (96 percent, as measured in numbers of fish) of the 1986 salmon harvest was taken by subsistence methods, just four percent using rod and reel, and none were removed from commercial harvests. A similar pattern appeared in Karluk (Table 10; Fig. 9), where subsistence methods accounted for 94 percent of the total salmon harvest, rod and reel provided two percent, and commercial catches only four percent.

In the other four communities, however, removal from commercial catches provided a substantial portion of the salmon harvest for home use in 1986, accounting for over half of the catch in Larsen Bay (52 percent; Table 11, Fig. 10) and Old Harbor (60 percent; Table 12, Fig. 11) and almost a third in Ouzinkie (30 percent; Table 13, Fig. 12) and Port Lions (29 percent; Table 14, Fig. 13). But in all these communities, too, subsistence harvesting methods also provided large quantities of salmon, including 45 percent of the salmon at Larsen Bay, 30 percent at Old Harbor, 59 percent at Ouzinkie, and 54 percent at Port Lions.

Finally, rod and reel catches in these four communities ranged from three percent of the total salmon harvest in Karluk to 17 percent at Port Lions. The rod and reel method was particularly noteworthy for certain species in some communities. such as silver **salmon** and pink salmon at Port Lions and Ouzinkie. A large percentage of the silver salmon taken by Ouzinkie residents are caught with rod and reel because of the prohibition against using nets and seines in Katmai Creek **(5 AAC 01.525[9])**.

COMPARISON OF 1982/83 AND 1986 HARVEST AND USE DATA

Levels of Participation in Harvest and Use

In 1986, as in 1982/83, virtually every sampled household in the six Kodiak Island Borough villages used wild foods and participated in the harvest of these resources. As shown in Figure 14, in 1982/83, all the sampled Akhiok households used and harvested wild foods. In 1986, 91.7 percent used wild resources and 83.3 percent hawested them. In Karluk, every sampled household in 1982/83 and 1986 used wild resources; 95 percent harvested fish and game in 1982/83, and 100 percent in 1986. All of the Larsen Bay sample used and harvested wild foods in 1982/83. In 1986, 97.3 percent used and 81. I percent harvested these resources. Likewise, all of the sampled Old Harbor households used and harvested fish and game in 1982/83. In 1986, 100 percent of the Old Harbor sample used wild foods and 97.7 percent harvested them. The results for Ouzinkie had a similar pattern. All the sampled households used and harvested fish and game in 1982/83, while in 1986, 94.1 percent of the sample used wild foods and 91.2 percent hawested them. Finally, for Port Lions, all of the sample used wild resources in 1983, while 98.5 percent did so in 1986. In 1982/83, 98.2 percent of the interviewed Port Lions households harvested wild foods: 93.8 percent were successful harvesters in 1986.

Harvest Quantities

Table 15 compares estimated mean household and per capita harvests for interviewed households in the six Kodiak Borough communities for 1982/83 and 1986. Figure 15 compares per capita harvests for the two study years. One community, Port Lions, showed a notable increase in harvest of 19.0 percent,

from 279.8 pounds per person in **1982/83** to 333.1 pounds in 1986. Ouzinkie's harvest increased about 9.1 percent, from 369.1 pounds per person to 402.8 pounds. On the other hand, the Old Harbor sample's harvest of 423.2 pounds per person in 1986 was about 13.8 percent lower than the 491 .I pounds reported by the **1982/83** sample.

The other three samples reported 1966 harvests that were much less than those estimated for households from the same communities in 1982/83. The 1986 harvest of the sampled Larsen Bay households, as measured in pounds per person, was only 51.8 percent of that of 1982/83 (a decrease of 48.2 percent); Karluk's 1986 per capita harvest was 44.6 percent of that of 1982/83 (down 55.4 percent); and Akhiok's estimated 1986 harvest was only 31.3 percent of that of 1982/83 (down 68.7 percent).

Based on only two year's suwey data and limited samples in some communities, it is premature to discuss between-year variability or trends in Kodiak Island Borough subsistence **harvests.**² It is interesting to note, however, that of the 12 total estimates for the two years, 7 (from five communities) cluster in the 300-500 pound per capita range. Two estimates are above 500 pounds and three are below 300 pounds. As will be discussed below, harvest estimates for a number of other southern Alaska coastal communities are also in this range 300 - 500 pounds per person range.

Harvest Composition

Harvest composition refers to the relative portions of each sample's harvest, as measured in pounds edible weight, represented by each resource category. The results for Akhiok (Fig. 2), as with harvest quantities (Table 16), show the greatest contrasts between the two years' harvests. Salmon made up 45 percent of the Akhiok sample's harvest in 1983. but increased to 69 percent in 1986. Game's contribution also increased, from 8 percent in 1983 to 19 percent in 1986. Conversely, marine mammals dropped sharply from 30 percent of the total pounds in 1983 to just one percent in 1986.

² As noted above, since this report was finalized, harvest surveys pertaining to 1989 were conducted in the six villages. Surveys were conducted in some of the Kodiak Island Borough communities for 1990/91 and 1991/92 as well. Comparisons of harvest estimates based upon these surveys will the topic of future Division of Subsistence technical papers.

³ Note that data on plant harvest quantities were not collected for 1982/83. Because plant harvests are generally a relatively small portion of total subsistence harvests, this does not significantly affect comparisons of the two study years.

With a few exceptions, the composition of the reported harvests for 1983 and 1986 for the samples from Karluk, Larsen Bay, Old Harbor, and Ouzinkie were quite stable (Figs. 3-7). Larsen Bay showed a relative increase in salmon as a contributor to harvests (43 percent of the total in 1983, 48 percent in 1986) and a large decline in marine mammals (14 percent in 1982/83, 2 percent in 1986) (Fig. 4). In contrast, the relative contribution of marine mammals to Old Harbor's harvest was higher in 1986 (25 percent) than in 1983 (16 percent) (Fig. 5). The significance of game at Ouzinkie increased from 11 percent in 1983 to 17 percent in 1986, largely at the expense of marine invertebrates, which fell from 14 percent to 7 percent of the harvest (Fig. 6).

Comparisons of the data for the two Port Lions samples reveal some shifts in harvest composition. In 1982/83, in contrast to every other community, "other fish" made up the largest portion of the harvest at Port Lions, 35 percent. This percentage fell to 17 percent in 1986, while salmon rose from 35 percent in 1982/83 (notably lower than the other five communities) to 47 percent in 1986 (very similar to Larsen Bay, Old Harbor, and Ouzinkie). The relative contribution of game also was higher in 1986 (22 percent) in comparison with 1983 (13 percent) (Fig. 7).

In summary, a comparison of the 1986 data with that of 1982/83 shows that salmon remained the largest portion of subsistence harvests in Kodiak Island communities, with this resource category's share of the harvest in 1986 remaining about the same as in 1982/83 in some communities (Karluk, Old Harbor, Ouzinkie) and increasing in others (Akhiok, Larsen Bay, Port Lions). The portion of community harvests made up of game (mostly deer) increased notably in every community except Old Harbor, where the proportion was the same in 1982/83 and 1986. In contrast, the percentage of the harvests made up of marine mammals decreased in four communities (Akhiok, Karluk, Larsen Bay, and Port Lions), remained the same in one (Ouzinkie), and increased in one (Old Harbor). Declining marine mammal populations along Shelikof Strait may in part account for this overall decline. The relative contributions of fish other than salmon and marine invertebrates to harvest in 1982/83 and 1986 were fairly consistent, with a few exceptions. These included the 19 percentage point difference between "other fish" harvests in Port Lions in 1982/83 and 1986, and a 7 percentage point difference between marine invertebrate harvests at Ouzinkie.

COMPARISONS WITH OTHER GULF OF ALASKA COMMUNITIES

Table 17 and Figure 16 report per capita harvest estimates for other Gulf of Alaska communities based upon other Division of Subsistence research in the 1980s. Wiih the exception of Akhiok, the range of per capita harvests from about 209 to 423 pounds for the other Kodiak communities in 1986 is quite consistent with findings for the predominantly Native communities of Alaska's southern coast. Excluding the large or mostly non-Native places (Cordova, Kenai, Ninilchik, Homer, Seldovia, Kodiak City, Chiniak), of the remaining 12 communities, only one, Chignik reported a per capita harvest under 200 pounds (188 pounds), six had harvests from 200-299 pounds (like Larsen Bay in 1986), three had harvests in the 300 pound range (like Port Lions and Karluk), two were in the 400 pound range like Ouzinkie and Old Harbor, and one (Tatitlek in 1988/89) was above 500 pounds (644 pounds per person).

CONCLUSIONS

The results of the 1986 harvest survey conducted by KANA demonstrate that households in the six predominantly Alaska Native communities of the Kodiak Island Borough harvest and use relatively large quantities of wild fish, game, and plant resources. Harvest estimates are generally consistent with those reported for other Gulf of Alaska communities whose population is predominantly Alaska Native. Virtually every household in Akhiok, Karluk, Larsen Bay, Old Harbor, Ouzinkie, and Port Lions used wild foods in 1986, and the vast majority harvested fish and game as well. As measured in pounds edible weight, salmon contributed the most to the subsistence harvests in all six villages, but substantial quantities of other fish, game, marine invertebrates, birds, and, in some communities, marine mammals, were taken as well. Resource harvests in all six villages were quite diverse in terms of the number of different kinds of

⁴ Note that there are two annual harvest estimates for Tatitlek. Subsistence harvests which occurred after the Exxon Valdez oil spill of March 1989 are excluded from this comparison.

foods that were harvested and used during the 1986 study year. All of these findings are consistent with data presented for Kodiak Island Borough harvests for **1982/83**.

Differences between the **1982/83** and 1986 survey results for these six Kodiak communities also appeared, especially regarding harvest quantities and harvest composition. Future research would be necessary to determine if these **differences** were a product of sampling procedures, represent year to year fluctuations in subsistence activities, or Indicate trends towards decreasing or increasing subsistence harvests for particular species.

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TABLE 1. POPULATION AND SAMPLE SIZES FOR 1983 AND 1986 STUDY YEARS, KODIAK ISLAND BOROUGH COMMUNITIES.

1986 Harvest Survey 1983 Harvest Survey Ttl # # HHs % HHs
HHsb Srvvd Srvvd Population^a Ttl # # HHs % HHs 1983 <u> 1986</u> <u>HHs</u> Srvyd Srvyd 123 77.8 34 35.3 Akhiok 103 27 21 12 103 107 20 76.9 Karluk 26 27 19 70.4 Larsen Bay 179 169 43 32 74.4 52 37 71.2 Old Harbor 356 380 94 76 80.9 119 44 37.0 Ouzinkie 234 195 70 32 45.7 62 34 54.8 Port Lions 290 296 89 55 61.8 90 65 72.2 Total 1,265 1,270 349 236 67.6 384 211 54.9

a Sources: for 1983, based on KANA survey data (Scott et al 1992); for 1986, Alaska Department of Labor 1989.

b Calculated by dividing the 1986 population by the average household size of the 1986 sample.

Table 2. Estimated Harvest and Use of Fish, Game, and Plant Resources, Akhiok, 1986

Estimated Number of People in Community = 121.83

12.00 34.00

Number of Households Sampled = Number of Households in Community =

		Percentz	Percentage of Households	aholds		Pogr	Pounds Harvested	2	Amount Harvested	ested	95% Conf. Limit (+/-)
Resource Name	Use	Att	Harv	Recv	Give	Total	Mean HiH Percapita	Percapita	Total Units	Mean HH	Harvest
ALL RESOURCES	91.70	83.30	83.30	33.30	58.30	19779	581.74	162.35	19779 Pounds	581.74	35%
FISH	83.30	83.30	83.30	8.30	20.00	14418	424.06	118.34	14418 Pounds	424.06	44%
FISH [Commercial Gear]			0.00		0.0	0	0.00	0.00	0	00.00	
FISH [Non-Commercial Gear]			83.30			13156	386.94	107.98	13156 Pounds	386.94	48%
FISH (Rod and Reel)			20.00	-		1262	37.12	10.36	1262 Pounds	37.12	64%
SALMON	83.30	83.30	83.30	8.30	20.00	13559	398.79	111.29	2788 Individual	82.00	42%
Salmon [Commercial Gear]			0.00		0.0	0	0.00	0.00	0	00:00	
Salmon [Non-Commercial Gear]			83.30			12776	375.76	104.86	2666 Individual	78.41	44%
Salmon [Rod and Reel]			33.30		,	283	23.03	6.43	122 Individual	3.59	81%
Chum Salmon	25.00	41.70	25.00	0.00	25.00	714	21.00	5.86	130 Individual	3.82	105%
Chum Salmon [Commercial Gear]			0.00		0.00	0	0.00	0.00	0	00:00	
Chum Salmon [Non-Commercial Gear]			25.00			714	21.00	5.86	130 Individual	3.82	105%
Chum Salmon [Rod and Reel]			0.00			0	0.00	0.00	0	00:0	
Coho Salmon	75.00	75.00	75.00	8.30	20.00	6217	182.85	51.03	952 Individual	28.00	80%
Coho Salmon [Commercial Gear]			0.00		0.00	0	0.0	00.0	0	00.00	
Coho Salmon [Non-Commercial Gear]			41.70		•	5458	160.53	44.80	836 Individual	24.59	94%
Coho Salmon [Rod and Reel]			33.30			759	22.32	6.23	116 Individual	3.41	86%
Chinook Salmon	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	00:00	
Chinook Salmon [Commercial Gear]			0.0		000	0	000	0.00	0	00.00	
Chinook Salmon [Non-Commercial Gear]			0.00			0	0.00	0.00	0	000	
Chinook Salmon [Rod and Reel]			0.0			0	0.00	000	0	000	
Pink Salmon	20 20 20	66.70	20.00	0.00	33.30	1171	34.44	9.61	434 Individual	12.76	%99
Pink Salmon [Commercial Gear]			8.		00	0	0.00	0.00	o	00:00	
Pink Salmon [Non-Commercial Gear]			20.00			1171	34.44	9.61	434 Individual	12.76	%99
Pink Salmon [Rod and Reel]			0.0			•	000	0.0	0	000	
Sockeye Salmon	96.70	83.30	99	8.30	33.30	5458	160.53	44.80	1272 Individual	37.41	62%
Sockeye Salmon (Commercial Gear)			000		000	0	0.00	000	0	000	
Sockeye Salmon [Non-Commercial Gear]			58.30			5433	159.79	44.59	1267 Individual	37.26	62%
Sockeye Salmon [Rod and Reel]			8.30			54	0.71	0.20	6 Individual	0.18	150%
Salmon Roe	8.30	8.30	8.30	0.00	0.0						
Salmon Roe [Non-Commercial Gear]			8.30								
Salmon Roe (Rod and Reel)			000								

Table 2. Estimated Harvest and Use of Fish, Game, and Plant Resources, Akhiok, 1986

		Percenta	Percentage of Households	seholds		Poun	Pounds Harvested	8	Amount Harvested	peq	95% Conf. Limit (+/-)
Resource Name	Use	Ψ	Harv	Recv	Giv.	Total	Mean HH Percapita	Percapita	Total Units	Mean HH	Harvest
Non-Salmon Fish	41.70	33.30	33.30	8.30	33.30	859	25.26	7.05	spunod 658	25.26	%£6
Non-Salmon [Commercial Gear]			000		0.00	0	0.0	0.00	0	000	
Non-Salmon [Non-Commercial Gear]			16.70			88	11.18	3.12	380 Pounds	11.18	106%
Non-Salmon (Rod and Reel)			25.00			479	14.09	3.93	479 Pounds	14.09	106%
Cod	8.30	8.30	8.30	8	8.30	181	5.32	1.49	57 Individual	1.68	156%
Cod [Non-Commercial Gear]			8.30			181	5.32	1.49	57 Individual	1.68	156%
Cod [Rod and Reel]			000			0	0.00	0.00	0	0.00	
Tom Cod	0.00	0.00	000	8	0.00	0	0.0	0.00	0	00.0	
Tom Cod [Non-Commercial Gear]			0.00			0	0.0	0.00	0	0.00	
Tom Cod [Rod and Reel]			0.00			0	0.00	0.00	0	000	
Unknown Cod	8.30	8.30	8.30	0.00	8.30	181	5.32	1.49	57 Individual	1.68	156%
Unknown Cod [Non-Commercial Gear]			8.30			181	5.32	1.49	57 Individual	1.68	156%
Unknown Cod [Rod and Reel]			000			0	0.00	0.00	0	00.0	
Flounder	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Flounder (Non-Commercial Gear)			0.00			0	0.00	0.00	0	00.0	
Flounder (Rod and Reel)			0.00			0	0.00	0.00	0	00.0	
Sole	0.00	0.00	0.00	0.0	0.00	0	0.0	0.00	0	00.0	
Sole [Non-Commercial Gear]			000			0	0.0	0.00	0	00.0	
Sole [Rod and Reef]			0.00			0	0.00	0.00	0	0.00	
Halibut	33.30	33.30	25.00	8 .30	25.00	295	16.68	4.65	567 Pounds	16.68	84%
Halibut [Commercial Gear]			0.00		0.00	0	0.0	0.00	0	00.0	
Halibut [Non-Commercial Gear]			8.30			8 6	5.82	1.63	9 Individual	0.26	248
Halibut [Rod and Reel]			8.30			308	10.82	3.02	11 Individual	0.32	109%
Herring	0.00	0.0	0.00	0.00	0.00	0	8	0.00	0	0.00	
Herring [Commercial Gear]			0.00		0.00	0	0.00	0.00	0	0.00	
Herring [Non-Commercial Gear]			000			0	0.00	000	0	00.0	
Herring [Rod and Reef]			0.00			0	0.00	0.00	0	0.00	
Roe on Kelp	0.00	0.0	0.00	0.00	0.00	0	0.00	0.00	0	00.0	
Roe on Kelp [Non-Commercial Gear]			0.00			0	0.00	0.00	0	0.00	
Roe on Kelp [Rod and Reel]			0.00			0	80	0.00	0	0.00	
Rockfish	0.00	0.0	0.00	0.00	0.00	0	0.00	0.00	0	00.0	
Rockfish [Non-Commercial Gear]			0.00			0	0.00	0.00	0	00.0	
Rockfish [Rod and Reel]			0.00			0	0.00	0.00	0	0.00	
Red Rockfish	000	0.0	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Red Rockfish [Non-Commercial Gear]			0.00			0	0.00	0.00	0	0.00	
Red Rockfish fRod and Reell			0.00			U	00 O	0.00	O	0.00	

Table 2. Estimated Harvest and Use of Fish, Game, and Plant Resources, Akhiok, 1986

		Drenenti	Descentage of Households	seholds		Poun	Pounds Harvested	9	Amount Harvacte	- 95% Conf. Limit (+/-)	T (+/-)
Resource Name	క్రి	₹	Harv	Recv	Give	Total	Mean HH Perpita	erpita	Total Units Mean HH	HH Harvest	ışt
S pa Bass	8	9	8	8	00	0	000	G	C	00.0	
Sea Base Mon-Commercial Geart	}		8			•	000	6		000	
			3 6			•	8 8	3 8		2 2	
Sea Bass (Kod and Reei)	8	8	3 8		8	-	88	3 6		8 8	
Unknown Rockish	3	3	3		3	•	3	3		3 ;	
Unknown Rockfish [Non-Commercial Gar]			000			0	000	9		000	
Unknown Rockfish [Rod and Reel]			0.00			0	000	9		000	
Irish Lord	8.0	0.00	0.00	;	0.00	0	00.0	9		00:00	
Irish Lord [Non-Commercial Gear]			0.0	0.00		0	000	.		00:00	
Irish Lord [Rod and Reef]			0.00			0	000	9		00:00	
Eel	00.0	0.00	0.00	0	0.0	0	000	9		00:0	
Eel [Non-Commercial Gear]			0.00			0	0.00	. 0	0	00.0	
Eel [Rod and Reel]			0.00			0	000	6		00:0	
Shark	000	00 00	0.00	0	0.00	0	0.00	0		00:0	
Shark [Non-Commercial Gear]			0.00	0.00		0	000	6		0.00	
Shark [Rod and Reel]			0.00			0	00.0	6		00:0	
Pollock	8 •0	8 •	0.00	0	0.0	0	000	6		00:00	
Pollock [Non-Commercial Gear]			0.00			0	00.0	6	0	00:0	
Pollock (Rod and Reel)	ç	4	0.00			0	0.00	(0	0 -	00:00	
Trout and Char	0 2 9	6.70 6.70	16.70	0	6.70	==	3.26	ï.	(Individual	2.32	117%
Trout and Char [Non-Commercial Gear]			0.00	8		0	000	9		0.00	
Trout and Char [Rod and Reef]	,	(16.70			Ħ	3.26	Ō.	(Individual	2.32	117%
Char	8	800	8.30	0	8.30	79	2.32	.0.		1.68	156%
Char [Non-Commercial Gear]			0.00			0	0.00	<u>.</u>		0.00	
Char [Rod and Reel]			8.30			79	2.32	.05	[mdividual	1.58	156%
Dolly Varden	8	8 30	8.30	0	8.30	79	2:32	.05		1.58	156%
Dolly Varden [Non-Commercial Gear]			0.00	8		0	000	6		00:00	
Dolly Varden [Rod and Reel]			4.20			79	2.32	.0.		1.68	10%
Trout	8 .30	8 30	8.30	0	8.30	32	0.94	.0 <u>.</u>	Individual	0.58	156%
Trout [Non-Commercial Gear]			0.00			.0	0.00	C O:		00.00	
Trout (Rod and Reel)			8.30			32	0.94	.O.		99.0	156%
Lake Trout	8 30	8 .30	8.30	0	8.30	32	0.94	.03	, individual	0.58	156%
Lake Trout [Non-Commercial Gear]			0.0	S		0	000	6		0.00	}
Lake Trout [Rod and Reef]			8.30	\$\$\$	46	32	0.94	.03	Individual	0.58	
Rainbow Trout	9.0	9.00	0.00	0 \$\$\$	000	0	000	6		000	126%
Rainbow Trout [Non-Commercial Gear]			000		© 0	0	00:0	6	-) C	000	
Rainbow Trout (Rod and Reell			000		0	0	000	G)	00.00	

Table 2. Estimated Harvest and Use of Fish, Game, and Plant Resources, Alchiok, 1986

		Percentage of Households	ge or mou	senotas		g B	Pounds Harvested	×	Amount Harvested	sted	95% Conf. Limit (+/-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total	Mean HH Percapita	Percapita	Total Units	Mean HH	Harvest
Steelhead	00:00	00.0	0.00	00.00	000	0	00.0	000	o	000	,
Steelhead [Non-Commercial Gear]			0.00			0	000	000	• •	000	
Steelhead [Rod and Reel]			0.00		11	0	0.00	00.0	0	00.0	
Unknown Trout	0.0 0.0	0.00	0.00	0.00	0.00	0	0.00	0.00	0	00.00	
Unknown Trout [Non-Commercial Gear]	**		0.00			0	0.00	0.00	0	00:0	
Unknown Trout [Rod and Reef]			0.00			0	0.00	0.00	0	00:00	
GAME	58.30	58.30	20.00	16.70	41.70	3800	111.76	31.19	77 Individual	2.26	%89
Big Game	58.30	58.30	20.00	16.70	41.70	3800	111.76	31.19	77 Individual	2.26	*89
Brown Bear	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	00:0	
Caribou	0.00	0.00	0.00	0.00	0.00	0	0.0	000	0	00:00	
Deer	58.30	58.30	20.00	16.70	41.70	3800	111.76	31.19	77 Individual	2.26	*89
EK	000	0.00	800	0.00	0.00	0	0.00	000	0	00:00	
Goat	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	00.0	
Moose	000	0.00	0.00	0.00	0.00	0	0.00	0.00	0	00:00	
Reindeer	<u>8</u>	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Sheep	80	0.00	0.0	0.00	0.00	0	0.00	0.00	0	00.0	
Small Game/Furbearer	0.00	0.00	800	0.00	0.0	0	0.0	0.00	0	00.0	
Fox	000	0.00	0.0	0.00	0.00	0	0.00	0.00	0	0.00	
Red Fox	0.0	0.00	0.00	0.0	0.00	0	0.00	0.00	0	0.00	
Beaver	0.00	000	8	0.00	0.00	0	0.00	0.00	0	00.0	
Hare	000	000	0.0	0.00	0.00	0	0.00	0.00	0	0.00	
Land Otter	0.0	0.00	0.0	0.0	0.00	0	0.00	0.00	0	0.00	
Weasel	0.0	0.00	800	0.0	0.00	0	0.00	0.00	0	0.00	
MARINE MAMMALS	25.00	16.70	16.70	16.70	16.70	184	5.41	1.5.1	11 Individual	0.32	109%
Whale	0.0 0.0	0.0	00.0	0.0	000	0	0.00	0.00	0	00.0	
Black Fin Whale	8	0.00	0.0	0.00	0.00	0	0.00	0.00	0	00:0	
Seal	25.00	16.70	16.70	16.70	8.30	22	1.68	0.47	6 Individual	0.18	100%
Harbor Seal	25.00	16.70	16.70	16.70	8.30	27	28	0.47	6 Individual	0.18	100%
Sea Lion	25.00	16.70	16.70	16.70	16.70	128	3.76	1.05	6 Individual	0.18	100%
Sea Otter	000	00	0.0	000	0.00	0	0.00	0.00	0	0.00	
HIRDS AND EGGS	33.30	33.30	25.00	8.30	8.30	43	1.26	0.35	99 Individual	2.91	%96
Upland Game Birds	<u>8</u>	0.00	0.00	0 .00	800	0	0.00	0.00	0	00:00	
Ptarmigan	000	0.00	0.00	0.00	00:0	0	000	00.0	0	0.00	

Table 2. Estimated Harvest and Use of Fish, Game, and Plant Resources, Alchiok, 1986

		Dereents,	shipped of Households	obolde	ľ	Pound	Pounds Harvested	Ţ	Amount Harvested		95% Conf. Limit (+/-)
esource Name	es Ose	reiceilla Att	Harv	Recv	Give	Total M	Mean HH Percapita	ercapita	Total Units I	an HH	Harvest
									•		***************************************
Migratory Birds	25.00	25.00	16.70	8.30	8 .30	ੜ	8	0.28	43 individual	1.26	-
Ducks	25.00	16.70	16.70	8.30	8.30	ಸ	1 .00	0.28	43 Individual	1.26	111%
Geese	830	8.30	000	83	0.0	0	0.0	0.0	0	00.0	
Eggs	16.70	8.30	8.30	83	0.00	0	0.26	0.07	57 Individual	1.68	156%
MARINE INVERTEBRATES	75.00	58.30	58.30	25.00	41.70	1219	35.85	10.01	1219 Pounds	35.85	49%
MARINE INVERTEBRATES-Commercial		000	000		0.00	0	0.0	0.00	0	000	
MARINE INVERTEBRATES-Non Commercial	75.00	5830	58.30	25.00	41.70	1219	35.85	10.01	1219 Pounds	35.85	49%
Clams	33.30	25 00	25.00	830	8.30	160	4.71	1.31	17 6 Gal Bckt	0.50	106%
Clams-Non Commercial	33.30	25.00	25.00	830	830	3	4.71	1.31	17 6 Gal Bold	0.50	105%
Butter Clams	33.30	25.00	25.00	830	8.30	133	3.91	1.08	14 6 Gal Bold	0.41	100%
Butter Clams-Non Commercial	33.30	25.00	25.00	8.30	8.30	133	3.91	1.09	14 6 Gal Bckt	0.41	100%
Razor Clams	8.30	8.30	8.30	000	0.00	27	0.79	0.22	3 6 Gal Bckt	0.0	133%
Razor Clams-Non Commercial	8.30	8.3	8.30	0.00	0.00	27	0.79	0.22	3 6 Gal Bold	6 0.0	133%
Horse Clams (Gaper)	0.00	000	000	000	0.00	0	0.00	0.00	0	0	
Horse Clams (Gaper)-Non Commercial	00.0	8	0.00	000	0.00	0	000	0.0	0	0.0	
Crabs	20.00	25.00	25.00	25.00	33.30	183	4.79	4.3	71 Individual	2.09	85%
Crabs-Commercial		0.0	000		0.00	0	0.00	0.00	0	0.0	
Crabs-Non Commercial	20.00	25.00	25.00	25.00	33.30	163	4.79	<u>-</u> 8	71 Individual	5.09	85%
Dungeness Crab	0.00	0.00	0.00	0.00	0.00	0	0.00	000	0	0	
Dungeness Crab-Commercial		0.00	0.00		0.00	0	0.00	000	0	000	
Dungeness Crab-Non Commercial	000	0.00	0.00	0.00	0.0	0	0.00	0.00	0	000	
King Crab	20.00	25.00	25.00	25.00	33.30	16 3	4.79	<u>5</u>	71 Individual	2.08	85%
King Crab-Commercial		0.0	0.00		0.0	0	0.00	0.00	0	0.00	
King Crab-Non Commercial	20.00	25.00	25.00	25.00	33.30	₹ 13	4.79	د ج	71 Individual	2.06	85%
Tanner Crab	0.00	0.00	0.00	0.00	0.00	0	000	0.0	0	000	
Tanner Crab-Commercial		0.00	0.0		0	0	0.0	0.0	0	0	
Tanner Crab-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.0	0.0	0	8	
Cockles	02.99	58.30	58.30	8.30	16.70	453	13.32	3.72	48 6 Gal Bcid	1.	*Os
Cockles-Non Commercial	96.70	58.30	58.30	8.30	16.70	453	13.32	3.72	48 6 Gal Bckt	4.	30s
Geoducks	000	0.00	0.0	0.00	0.00	0	0.00	0.0	0	0.0	
Geoducks-Non Commercial	00.0	0.00	0.0	0.0	0.00	0	8 0	0.0	0	0.0	
Scallops	00.0	0.00	0	0.00	0.00	0	0.00	0.0	0	0.0	
Scallops-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	0.0	0	000	
Mussels	0.00	0.00	0.00	0.00	0.00	0	0.00	0.0	0	00	
Mussels-Non Commercial	0.00	0.0	0.00	0.00	0.00	0	0.00	0.0	0	0.0	
·	OR ON	16 70	16.70	A 35	o O	27	0.79	0.22	3 6 Gal Bckt	0.0	100%

Table 2. Estimated Harvest and Use of Fish, Game, and Plant Resources, Akhiok, 1986

		Percenta	Percentage of Households	sehodes		Poun	Pounds Harvested		Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	Att	Harv	Recv	Give	Total	Mean HH Percapita	ercapita	Total Units	Mean HiH	Harvest
Chitons-Non Commercial	25.00	16.70	16.70	8.30	000	27	0.79	0.22	3 6 Gal Bolt	0.09	100%
Bidarkis (large)	25.00	16.70	16.70	8.30	0.00	27	0.79	0.22	3 6 Gal Bckt	0.09	100%
Bidarkis (large)-Non Commercial	25.00	16.70	16.70	8.30	000	27	0.79	0.22	3 6 Gal Bold	0.09	100%
Octobus	58.30	20.00	20.00	8.30	25.00	272	8.00	2.23	68 Individual	2.00	54%
Octopus-Non Commercial	58.30	20.00	20.00	8.30	25.00	272	8.0	2.23	68 Individual	2.00	54%
Sea Cucumber	0.00	0.00	0.00	000	0.00	0	0.00	000	0	0.00	
Sea Cucumber-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.0	00.0	0	00.0	
Sea Urchin	58.30	20.00	90.0S	8.30	41.70	145	4.26	1.19	48 6 Gal Bckt	1.41	54%
Sea Urchin-Non Commercial	58.30	20.00	20.00	8.30	41.70	145	4.26	1.19	48 6 Gal Bckt	1.41	54%
Shrimp	0.00	0.00	0.00	0.00	0.0	0	0.0	0.00	0	000	
Shrimp-Commercial		0.00	0.00		0.0	0	0.00	000	0	000	
Shrimp-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	000	0	000	
Snails	0.0	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Snails-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	00.0	
Limpets	0.00	0.00	0.00	0.00	0.00	0	0.00	000	0	000	
Limpets-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	0.0	0	000	
PLANTS AND BERRIES	58.30	58.30	58.30	00.0	00.0	116	3.41	0.95	116 Pounds	3.41	28%
Berries	58.30	58.30	58.30	0.00	0.0	116	3.41	0.95	116 Quarts	3.41	58%
Plants/Greens/Mushrooms	0.00	0.00	0.00	000	0.00	0	0.00	0.00	0	000	
Seaweed/Kelp	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	000	
SOURCE: Maska Dept. of Fish and Game, Division of		ce, House	Subsistence, Household Surveys, 198	ys, 1987.							

TABLE 3. AVERAGE NUMBER OF TYPES OF RESOURCES USED, ATTEMPTED TO HARVEST, HARVESTED, RECEIVED, AND GIVEN AWAY PER HOUSEHOLD, KODIAK ISLAND BOROUGH STUDY COMMUNITIES, 1986

		Averaae Num	ber of Resourd	ces oer Household	
	Used	Attempted	R∏arvæstoed €	e i <u>v e d</u>	Gave Away
Akhiok	8.00	6.92	6.75	1.67	3.92
Karluk	13.74	8.21	8.11	6.63	4.26
Larsen Bay	13.84	7.59	7.32	8.68	3.32
Old Harbor	13.66	10.14	9.89	7.50	5.36
Ouzinkie	17.00	13.32	12.53	8.18	5.06
Port Lions	13.00	9.91	9.28	5.78	4.38

Source: Division of Subsistence Household Survey 1987

Table 4. Estimated Harvest and Use ^{© ≕sh}, Game, and Plant Resources, Karluk, 1986

19.00 27.00

Number of Households Sampled = Number of Households in Community =

Estimated Number of People in Community = 108.00

		Percent	Percentage of Households	seholds		Pour	Pounds Harvested	R	Amount Harvested		95% Conf. Limit (+/-)
Resource Name	lisa	Αü	Harv	Recv	Give	Total	Mean HH	Percapita	Total Units	Mean HH	Harvest
							7, 40, 60	206.46	AND Decide	1540.63	214
ALL RESOURCES	100.00	1000	10000	0.48	88	41387	240.05	303.10	41097 FOURS	20.000	2007
FISH	94.70	94.70	94.70	78.90	78.90	32106	1189.11	297.28	32106 Pounds	1188.11	8 2
FISH [Commercial Gear]			15.80		5.30	1471	54.48	13.62	1471 Pounds	54.48	91%
FISH [Non-Commercial Gear]			89.50			26309	974.41	243.60	26309 Pounds	974.41	19%
FISH IRod and Reall			52 60			4326	160.22	40.06	4326 Pounds	160.22	45%
SALMON	94.70	89.50	89.50	68.40	78.90	27530	1019.63	254.91	6163 Individual	228.26	50%
Salmon ICommercial Gearl			15.80		5.30	1187	43.96	10.99	252 Individual	9.33	88 %
Salmon [Non-Commercial Gear]			84.20			25866	958.00	239.50	5761 Individual	213.37	20%
Salmon (Rod and Reel)			15.80			478	17.70	4.43	151 Individual	5.59	401%
Chum Salmon	10.50	15.80	5.30	5.30	5.30	156	5.78	1.44	28 Individual	<u>2</u>	107%
Chum Salmon (Commercial Gear)			0.00		0.00	0	0.00	0.00	0	0.00	
Chum Salmon (Non-Commercial Gear)			5.30			156	5.78	1.44	28 Individual	2.	* 107 *
Chum Salmon [Rod and Reel]			0.00			0	0.0	000	0	000	
Coho Salmon	73.70	57.90	52.60	36.80	36.80	3498	129.56	32.39	536 Individual	19.85	
Coho Salmon [Commercial Gear]			10.50		0.00	278	10.30	2.57	43 Individual	1.59	
Coho Salmon [Non-Commercial Gear]			47.40			3220	119.26	29.81	493 individual	18.26	42%
Coho Salmon [Rod and Reel]			0.0			0	0.00	0.00	0	0.0	
Chinook Salmon	63.20	57.90	57.90	21.10	21.10	1519	56.26	14.06	138 Individual	5.11	23%
Chinook Salmon [Commercial Gear]			5.30		0.00	95	3.48	0.87	9 Individual	0.33	
Chinook Salmon [Non-Commercial Gear]			42.10			1331	49.30	12.32	121 Individual	4.48	
Chinook Salmon [Rod and Reel]			15.80			94	3.48	0.87	9 Individual	0.33	
Pink Salmon	36.80	42.10	31.60	15.80	15.80	1819	67.37	16.84	674 Individual	24.96	
Pink Salmon [Commercial Gear]			5.30		0.00	11	2.85	0.71	28 Individual	<u>-</u>	10/
Pink Salmon [Non-Commercial Gear]			26.30			1358	50.30	12.57	503 Individual	18.63	659
Pink Salmon (Rod and Reel)			5.30			384	14.22	3.56	142 Individual	5.26	10/
Sockeye Salmon	89.50	84.20	84.20	52.60	73.70	20538	760.67	190.17	4788 Individual	177.33	21%
Sockeye Salmon [Commercial Gear]			15.80		5.30	738	27.33	6.83	172 Individual	6.37	88
Sockeye Salmon [Non-Commercial Gear]			78.90			19801	733.37	183.34	4616 Individual	170.96	
Sockeye Salmon (Rod and Reel)			0.00			0	0.00	0.0	0	0.0	
Salmon Roe	<u>8</u>	8	000	000	0.0						
Salmon Roe [Non-Commercial Gear]			000								
Salmon Roe (Rod and Reel)			00.0								

Table 4. Estimated Harvest and Use of Fish, Game, and Plant Resources, Karluk, 1986

	İ	Percenta	Percentage of Households	phologe	Ī	Pour	Pounds Harvasted	Ž	Amount Harvested		95% Conf. LIMIR (*/-)
Resource Name	O.Se	¥	Har∨	Recv	Give	Total	Mean HH Percapita	Percapita	Total Units	Mean HH	Harvest
Non-Salmon Fish	84.20	52.60	52.60	47.40	31.60	4575	169.44	42.36	4576 Pounds	169.48	46%
Non-Salmon [Commercial Gear]			5.30		0.00	284	10.52	2.63	284 Pounds	10.52	106%
Non-Salmon [Non-Commercial Gear]			21.10			443	16.41	4.10	443 Pounds	16.41	%09
Non-Salmon [Rod and Reef]			47.40			3848	142.52	35.63	3848 Pounds	142.52	%6 *
Cod	42.10	15.80	15.80	26.30	10.50	112	4.15	2.	70 Individual	2.59	87%
Cod INon-Commercial Gearl			10.50			9	0.22	90.0	13 Individual	0.48	%69
Cod (Rod and Reel			5.30			5	3.89	0.97	57 Individual	2.11	107%
Tom Cod	21.10	15.80	15.80	5.30	10.50	21	0.78	0.19	41 Individual	1.52	75%
Tom Cod [Non-Commercial Gear]			10.50			ဖ	0.22	90:0	13 Individual	0.48	% 69
Tom Cod [Rod and Reef]			5.30			<u>=</u>	0.52	0.13	28 Individual	2.	107%
Unknown Cod	26.30	5.30	5.30	21.10	5.30	16	3.37	0.84	28 Individual	20.	107%
Unknown Cod [Non-Commercial Gear]			0.00			0	0.00	0.00	0	0.00	
Unknown Cod [Rod and Reel]			5.30			91	3.37	0.84	28 Individual	2 .	107%
Flounder	31.60	21.10	21.10	5.30	5.30	362	13.41	3.35	121 Individual	4.48	49%
Flounder [Non-Commercial Gear]			15.80			256	9.48	2.37	85 Individual	3.15	%09
Flounder [Rod and Reel]			5.30			107	3.96	0.99	36 Individual	1.33	105%
Sole	0.00	0.00	0.0	0.00	0.0	0	000	0.00	0	0.00	
Sole [Non-Commercial Gear]			0.0			٥	0.00	0.00	0	0.00	
Sole [Rod and Reef]			0.0			0	0.00	0.00	0	0.00	
Halibut	78.90	31.60	31.60	47.40	21.10	3087	114.33	28.58	3087 Pounds	114.33	54%
Halibut [Commercial Gear]			5.30		000	58	10.52	2.63	264 Pounds	10.52	106%
Halibut [Non-Commercial Gear]			0.00			0	0.0	000	0	000	
Halibut [Rod and Reef]			21.10			2803	103.81	25.95	86 Individual	3.19	%9 9
Herring	0.00	5.30	0.00	0.00	0.00	0	0.0	000	0	0.00	
Herring [Commercial Gear]			0.00		0.00	0	0.0	0.0	0	0.0	
Herring [Non-Commercial Gear]			0.0			0	0.00	000	0	8	
Herring [Rod and Reel]			9 0 0			0	0.0	0.0	•	00	
Roe on Kelp	000	0.00	000	000	0	0	0.0	000	0	000	
Roe on Kelp [Non-Commercial Gear]			0.00			0	000	000	0	8	
Roe on Kelp [Rod and Reel]			000			0	0.0	80	0	8	
Rockfish	10.50	5.30	5.30	5.30	0.00	56	96.0	0.24	17 Individual	8	105%
Rockfish [Non-Commercial Gear]			5.30			5 0	96.0	0.24	17 Individual	8	
Rockfish [Rod and Reel]			00.0			0	0.00	00.0	0	8	
Red Rockfish	0.00	0.00	0.00	000	000	0	000	8 0	0	8	
Red Rockfish [Non-Commercial Gear]			0.00			0	0.0	000	0	8	
Rad Rockfish (Rod and Real)			000			0	00.0	0.00	0	0.00	

Table 4. Estimated Harvest and Use of Fish, Game, and Plant Resources, Karluk, 1986

		Percenta	Percentage of Households	eholds		Pound	Pounds Harvested		Amount Harvested		95% Conf. Limit (**-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total M	Mean HH Percapita	ərcapita	Total Units Me	Mean Hit	Harvest
		;	:		;			100	Section 1 2 4	0.63	1058
Sea Bass	10.50	9.3G	230	9	3	9	8	0.74		3 8	3 3 3
Sea Bass [Non-Commercial Gear]			5.30			5 6	96.0	0.24	17 Individual	3	8
Sea Bass [Rod and Reel]			0.00			0	0.00	8	0	0.00	
Unknown Rockfish	0.0	0.00	0.00	<u>0</u>	0.0	0	0.0	000	0	9	
Unknown Rockfish [Non-Commercial Gear]			0.00			0	0.00	000	•	000	
Unknown Rockfish [Rod and Reef]			0.00			0	0	0.0	•	0 0 0	
Irish Lord	0.0	0.00	000	0.00	0.00	0	8	0.00	•	000	
irish Lord Mon-Commercial Gearl			0.00			0	0.00	0.00	0	000	
Irish Lord (Rod and Reell			0.00			0	0.00	0.00	0	0.00	
Tall I	80	0.0	000	00.0	0.00	•	0.00	0.0	0	000	
Eel Non-Commercial Gearl			0.0			•	0.00	0.0	0	0.00	
Eel (Rod and Reel)			0.0			0	0.00	0.00	0	000	
Shark	0.00	0.00	0.0	0.00	0.00	0	0.00	0.00	0	000	
Shark [Non-Commercial Gear]			0.0			0	0.00	0.00	0	000	
Shark (Rod and Reel)			0.00			0	0.0	0.0	0	8 6	
Pollock	0.0	0.00	0.0	0.00	0.00	0	0.00	000	0	8 0	
Pollock [Non-Commercial Gear]			0.0			.0	0.00	0.00	0	<u>0</u>	
Pollock (Rod and Reel)			0.00			0	0.0	0.0	0	8 0	
Trout and Char	78.90	52.60	52.60	26.30	21.10	686	36.63	9.16	706 Individual	26.15	*89
Trout and Char [Non-Commercial Gear]			21.10			155	5.74	4	111 Individual	4.1	9 29
Trout and Char [Rod and Reel]			36.80			833	30.85	7.71	595 Individual	25.04	81% %
Char	52.60	26.30	26.30	26.30	15.80	297	22.11	5.53	426 Individual	15.78	71%
Char [Non-Commercial Gear]			10.50			139	5.15	1.29	99 Individual	3.67	74%
Char [Rod and Reel]			15.80			45	16.96	4.24	327 Individual	12.11	92%
Dolly Varden	52.60	26.30	26.30	26.30	15.80	297	22.11	5.53	426 Individual	15.78	71%
Dolly Varden [Non-Commercial Gear]			5.30			139	5.15	1.29	99 Individual	3.67	53%
Doily Varden [Rod and Reef]			7.90			458	16.96	4.24	327 Individual	12.11	80% 80%
Trout	57.90	42.10	42.10	15.80	15.80	392	14.52	3.63	280 individual	10.3/	£00
Trout [Non-Commercial Gear]			10.50			16	0.59	0.15	11 Individual	4.	81.00 84.100
Trout [Rod and Reel]			31.60			376	13.93	3.48	269 Individual	96.6	869 :
Lake Trout	5.30	5.30	5.30	000	0.00	199	7.37	<u>.</u> 8	142 Individual	5.26	107%
Lake Trout [Non-Commercial Gear]			0.00			0	0.00	0.0	0	000	
Lake Trout [Rod and Reef]			5.30			199	7.37	1.84	142 Individual	5.26	107%
Rainbow Trout	5.30	5.30	5.30	000	0.00	40	1.48	0.37	28 Individual	2	107%
Rainbow Trout [Non-Commercial Gear]			0.0			0	0.0	0.0	0	000	
D-:-L T 10-4-4-0-10			ς γ			Ψ	1 48	0.37	28 Individual	2	107%

Table 4. Estimated Harvest and Use of Fish, Game, and Plant Resources, Karluk, 1986

		Percenta	Percentage of Households	eholds		Pour	Pounds Harvested	٦	Amount Harvested	per	95% Conf. Limit (+/-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total	Mean HH Percapita	ercapita	Total Units	Mean HH	Harvest
Steethead	57.90	42.10	42.10	15.80	15.80	153	2.67	1.42	109 Individual	2.	\$
Steelhead (Non-Commercial Gear)			10.50			16	0.59	0.15	11 Individual	0.41	81%
Steelhead (Rod and Reef)			31.60			137	2.07	1.27	98 Individual	3.63	45%
Unknown Trout	0.00	0.00	0.0	0.00	0.00	0	0.00	0.00	0	000	
Unknown Trout (Non-Commercial Gear)			0.0			0	0.00	0.0	0	0.00	
Unknown Trout Rod and Reell			0.0	l		0	0.00	0.00	0	0.00	
GAME	100.00	63.20	57.90	78.90	68.40	4876	180.59	45.15	97 Individual	3.59	31%
Bio Game	100.00	63.20	52.60	78.90	68.40	4845	179.44	44.86	71 Individual	2.63	30%
Brown Bear	000	800	000	0.0	000	0	0.0	0.0	0	0.00	
Caribon	5.30	5.30	5.30	0.00	5.30	1066	39.48	9.87	7 Individual	0.26	114%
Deer	100.00	57.90	47.40	78.90	68.40	3779	139.96	8.8	64 Individual	2.37	34%
<u> </u>	000	0.0	0.00	000	0.00	0	0.00	0.00	0	000	
Goat	8.0	0.00	0.00	0.00	0.00	0	0.0	0.0	0	000	
Moose	0.0	0.0	0.00	0.00	0.00	0	0.0	0.0	0	0.00	
Reindeer	0.0	0.0	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Sheep	0.0	0.0	0.00	0.0	0.0	0	0.00	0.00	0	0.00	
Small Game/Furbearer	10.50	10.50	10.50	0.00	0.00	31	1.15	0.29	26 Individual	0.96	%9 2
Fox	5.30	5.30	5.30	0.00	0.00	0	0.0	0.00	7 Individual	0.26	2.2%
Red Fox	5.30	5.30	5.30	0.00	0.00	0	0.00	0.0	7 Individual	0.26	11.4%
Beaver	0.0	0.00	0.00	0.00	000	0	0.00	0.0	0	0.0	
Hare	10.50	10.50	10.50	0.00	0.00	31	1.15	0.29	16 Individual	0.59	* 89
Land Otter	5.30	5.30	5.30	0.00	000	0	0.0	0.0	3 Individual	0.11	100%
Weasel	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
MARINE MAMMALS	84.20	26.30	26.30	57.90	15.80	2748	101.78	25.44	31 Individual	1.15	54%
Whale	0.0	0.0	0.00	000	0.00	0	0.00	0.0	0	0.0	
Black Fin Whale	0.0	0.00	0.00	000	0.00	0	0.0	0.0	•	0.0	
Seal	84.20	26.30	26.30	57.90	15.80	1539	27.00	14.25	24 Individual	0.89	\$05 206
Harbor Seal	84.20	26.30	26.30	57.90	15.80	1539	27.00	14.25	24 Individual	0.89	20%
Sea Lion	15.80	5.30	5.30	10.50	0.00	1209	44.78	11.19	7 Individual	0.26	114%
Sea Ofter	0.00	0.00	000	0.00	0.00	0	0 <u>.0</u>	00.0	0	0.00	
BIRDS AND EGGS	89.50	31.60	31.60	63.20	26.30	90g	11.44	2.86	963 individual	35.67	
Upland Game Birds	36.80	10.50	10.50	26.30	15.80	16	0.59	0.15	23 Individual	0.85	82%
Ptarmigan	36.80	10.50	10.50	26.30	15.80	16	0.59	0.15	23 Individual	0.85	82%
Migratory Birds	89.50	26.30	26.30	63.20	26.30	187	6.93	1.73	230 Individual	8.52	* 99
Durke	89.50	26.30	26.30	63 20	26 30	187	6.93	1.73	230 individual	8.52	%99

Table 4. Estimated Harvest and Use of Fish, Game, and Plant Resources, Karluk, 1986

		Percenta	Percentage of Households	eholds		Pound	Pounds Harvested	P	Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	¥	Harv	Recv	Give	Total	Mean HIH Percapita	Percapita	Total Units Mea	Mean HH	Harvest
	000	000	000	000	00	0	00	000	0	0.00	
S S S S S S S S S S S S S S S S S S S	10.50	530	5.30	5.30	5.30	107	3.96	0.99	Individual	26.33	106%
MARINE INVERTEBRATES	84.20	63.20	63.20	47.40	10.50	1351	50.04	12.51	1351 Pounds	50.04	29%
MARINE INVERTEBRATES-Commercial		5.30	5.30		0.00	564	9.78	2.44	264 Pounds	9.78	106%
MARINE INVERTEBRATES-Non Commercial	84.20	63.20	63.20	47.40	10.50	1087	40.26	10.06	1067 Pounds	40.26	48%
Clams	63.20	15.80	15.80	42.10	0.0	301	11.15	2.79	32 6 Gal Bokt	1.19	100%
Clams-Non Commercial	63.20	15.80	15.80	42.10	0.00	301	11.15	2.79	32 6 Gal Bokt	1.19	100%
Butter Clams	47.40	10.50	10.50	36.80	00.0	281	10.41	2.60	30 6 Gal Bold	1.11	100%
Butter Clams-Non Commercial	47.40	10.50	10.50	36.80	0.00	281	10.41	2.60	30 6 Gal Bold	1.1	100%
Razor Clams	10.50	5.30	5.30	5.30	0.00	13	0.48	0.12	1 6 Gal Bold	900	200%
Razor Clams-Non Commercial	10.50	5.30	5.30	5.30	0.00	13	0.48	0.12	1 6 Gal Bold	9.0	200%
Horse Clams (Gaper)	10.50	5.30	5.30	0.0	0.00	7	0.26	0.06	1 6 Gal Bokt	9.0	100%
Horse Clams (Gaper)-Non Commercial	10.50	5.30	5.30	0.00	0.00	7	0.26	0.06	1 6 Gal Bold	<u>9</u>	100%
Crabs	10.50	5.30	5.30	10.50	0.00	165	6.11	1.53	171 Individual	6.33	106%
Crabs-Commercial		5.30	5.30		0.00	165	6.11	1.53	171 Individual	6.33	106%
Crabs-Non Commercial	10.50	0.00	0.00	10.50	0.00	0	000	0.00	0	8	
Dungeness Crab	0.00	5.30	5.30	0.00	0.0	8	3.67	0.92	142 Individual	5.26	107%
Dungeness Crab-Commercial		5.30	5.30		00.0	8	3.67	0.92	142 Individual	5.26	107%
Dungeness Crab-Non Commercial	0.00	0.00	0.00	0.00	800	0	000	0.00	0	<u>8</u>	
King Crab	5.30	5.30	5.30	5.30	0.00	65	2.41	0.60	28 Individual	9.	¥101
King Crab-Commercial		5.30	5.30		0.0	65	2.41	0.60	28 Individual	<u>2</u>	107%
King Crab-Non Commercial	5.30	0.00	0.00	5.30	000	0	000	0.00	0	8	
Tanner Crab	5.30	800	00.0	5.30	000	0	000	0.0	0	8	-
Tanner Crab-Commercial		0.00	0.00		8	0	000	0.00	0	000	
Tanner Crab-Non Commercial	5.30	000	0.00	230	00.0	0	000	0.0	0	0.0	
Cockles	5.30	5.30	5.30	80	000	13	0.48	0.12	1 6 Gal Bold	9	200%
Cockles-Non Commercial	5.30	530	5.30	0.00	000	13	0.48	0.12	1 6 Gal Bold	9	200%
Geoducks	8	0.0	000	0.00	8	0	000	00	•	00.0	
Geoducks-Non Commercial	8	80	0.0	0.0	00	0 ;	00	0.00		0 0	70000
Scallops	8. 8.3	5.30	5.3 8.3	8	8	4	0.52	0.13	14 Pounds	0.52	4/0L
Scallops-Non Commercial	230	5.30	5.30	0.00	000	7	0.52	0.13	14 Pounds	0.52	36/01
Mussels	42.10	31.60	31.60	5.30	5.30	167	6.19	1.55	18 6 Gal Bckt	0.67	208
Mussels-Non Commercial	42.10	31.60	31.60	5.30	5.30	167	6.19	1.55	18 6 Gal Bckt	0.67	30S
Chitons	84.20	57.90	57.90	21.10	5.30	84	12.63	3.16	36 6 Gal Bckt	1.33	300 S
Chitons-Non Commercial	84.20	57.90	57.90	21.10	5.30	341	12.63	3.16	36 6 Gal Bckt	1.33	30%
Bidarkis (large)	84 .20	57.90	57.90	21.10	5.30	동	12.63	3.16	36 6 Gal Bckt	1.33	30%
Bidarkis (large)-Non Commercial	84.20	57.90	57.90	21.10	5.30	341	12.63	3.16	36 6 Gal Bckt	1.33	30%
Octopus	42.10	15.80	15.80	21.10	0.00	193	7.15	1.79	48 Individual	1.78	93%

Table 4. Estimated Harvest and Use of Fish, Game, and Plant Resources, Karluk, 1986

		Percentage of Households	A House	shode	ľ	Pour	Pounds Harvested		Amount Harvested		95% Conf. Limit (++)
	9		E C	Recv	Si.	Total	Mean HH Percapita	ercapita	Total Units	Mean HH	Harvest
Resource Name	80	₹				1					
	,	9	4	21 10	- 2	193	7.15	1.79	48 Individual	1.78	93%
Octopus-Non Commercial	42.10	30.0	200	2 :	3 6	} `	4	Č	Spend of	0.33	100%
Sea Cucumber	5.30	5.3 2	5.30	900	3	•	2.5	5			300
leinmerchar Non Commercial	530	5.30	5.30	000	8	4	0.15	900	9 Quarts	0.33	8 3
	27.00	42 10	42 10	10.50	5.30	51	1.89	0.47	17 6 Gal Bold	<u>8</u>	29%
Sea Urchin	8 6	42.45	42 10	10.50	5.30	5	1.89	0.47	17 6 Gal Bold	9	29%
Sea Urchin-Non Commercial	9.70	ָבְיבָּיבְיבָּיבְיבִיבְיבִיבְיבִיבְיבְיבִיבְיבְיבְיבְיבְיבִיבְיבְיבְיבְיבְיבְיבְיבְיבְיבְיבְיבְיבְי	2 4	5	8	8	3.67	0.92	99 Pounds	3.67	401%
Shrimp	3.0	3 6	3	3	3 8	8	167	0.92	99 Pounds	3.67	107%
Shrimp-Commercial		200	3		3	P '	5	9 6		5	
Shrimo-Non Commercial	5.30	8	8	5.30	8	0	000	3	>	3 3	2001
	5 30	5.30	530	80	0.00	7	0.07	0.02	6 Quarts	0.22	5
	5	230	530	000	000	7	0.07	0.02	6 Quarts	0.22	100%
Shalls-iven Commercial	8 8	8	8	8	000	0	000	000	0	0.00	
Limpets	3 8	3 8	8 8	8	90	٥	000	000	0	0.00	
Limpets-Non Commercial	3 6	3 6	3 6	9 4	47.40	700	7.67	1.92	207 Pounds	79.7	20%
PLANTS AND BERRIES	0.00	2 6	3 6	, ,	7 40	202	7.67	192	207 Quarts	7.67	20%
Berries	89.20	5. 5.	5.00	7.	2	5	9 6			2	
Plants/Greens/Mushrooms	0 0	<u>0</u>	000	8	8	0	0.00	3 :	o (3 6	
Cosmoodikelo	000	0.00	0.00	0.00	0.00	0	0.00	000	0	0.00	
Seameduring - Or - Cristian distribution	Cubeiston	1987 Surveys Household Surveys 1987	avris blo	ve 1987							

SOURCE: Alaska Dept. of Fish and Game, Division of Subsistence, Household Surveys, 1987.

Table 5. Estimated Harvest and Use of Fish, Game, and Plant Resources, Larsen Bay, 1986

37.00 52.00

Number of Households Sampled ≈ Number of Households in Community ≈

Estimated Number of People in Community = 170.05

		Percenta	Percentage of Households	seholds		Pour	Pounds Harvested	8	Amount Harvested	Sted	95% Conf. Limit (+/-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total	Mean HH Percapita	Percapita	Total Units	Mean HH	Harvest
			•		- 55	-	9	_0000		27 000	7730
ALL RESOURCES	97.30	83.80	81.10	86.50	38.30 20.30	3553/	683.40	208.97	3223/ Founds	963.40	W.C.7
FISH	91.90	67.60	09'29	78.40	43.20	23383	449.67	137.50	23383 Pounds	449.67	29%
FISH [Commercial Gear]			27.00		18.90	9919	190.75	58.33	9919 Pounds	190.75	46%
FISH [Non-Commercial Gear]			56.80			10782	207.35	63.40	10782 Pounds	207.35	32%
FISH [Rod and Reel]			29.70			2681	51.56	15.77	2681 Pounds	51.56	32%
SALMON	73.00	56.80	56.80	51.40	35.10	17308	332.85	101.78	3566 Individual	68.58	%) E
Salmon [Commercial Gear]			27.00		18.90	9341	179.63	54.93	1844 Individual	35.46	47%
Salmon [Non-Commercial Gear]			40.50			7238	139.19	42.56	1612 Individual	31.00	38%
Salmon [Rod and Reel]			18.90			729	14.02	4.29	110 Individual	2.12	74%
Chum Salmon	13.50	27.00	10.80	10.80	2.70	4	0.88	0.27	8 Individual	0.15	953
Chum Salmon [Commercial Gear]			2.70		0.0	23	0.44	0.14	4 Individual	90:08	100%
Chum Salmon [Non-Commercial Gear]			8.10			23	4.0	0.14	4 Individual	0.08	75%
Chum Salmon [Rod and Reel]			0.00			0	0.00	0.00	0	00:0	
Coho Salmon	59.50	48.60	48.60	37.80	24.30	2907	107.83	32.97	859 Individual	16.52	30%
Coho Salmon [Commercial Gear]			24.30		8.10	3129	60.17	18.40	479 Individual	9.21	38%
Coho Salmon [Non-Commercial Gear]			24.30			2056	39.54	12.09	315 Individual	90.9	45%
Coho Salmon [Rod and Reel]			13.50			455	8.12	2.48	65 Individual	1.25	75%
Chinook Salmon	32.40	24.30	24.30	21.60	8.10	1347	25.90	7.92	122 Individual	2.35	%89
Chinook Salmon [Commercial Gear]			10.80		5.40	1053	20.25	6.19	96 Individual	1.85	85%
Chinook Salmon [Non-Commercial Gear]			8.10			50	2.08	0.64	10 Individual	0.19	%08
Chinook Salmon [Rod and Reel]			8.10			186	3.58	1.09	17 Individual	0.33	88%
Pink Salmon	35.10	32.40	24.30	27.00	8.10	1264	24.31	7.43	468 Individual	9.00	51%
Pink Salmon [Commercial Gear]			10.80		2.70	493	9.48	2.90	183 Individual	3.52	25%
Pink Salmon [Non-Commercial Gear]			16.20			770	14.81	4.53	285 Individual	5.48	%99
Pink Salmon (Rod and Reel)			2.70			0	0.00	0.00	0	00:0	
Sockeye Salmon	62.20	54.10	51.40	40.50	32.40	9044	173.92	53.18	2108 Individual	40.54	38%
Sockeye Salmon [Commercial Gear]			27.00		18.90	4643	89.29	27.30	1082 Individual	20.81	57%
Sockeye Salmon [Non-Commercial Gear]			32.40			4281	82.33	25.17	998 Individual	19.19	45%
Sockeye Salmon [Rod and Reef]			8.10			121	2.33	0.71	28 Individual	0.54	107%
Salmon Roe	8.10	2.70	2.70	5.40	2.70						
Salmon Roe [Non-Commercial Gear]			2.70								
Salmon Roe [Rod and Reel]			0.00								

Table 5. Estimated Harvest and Use of Fish, Game, and Plant Resources, Larsen Bay, 1986

		Percentag	Percentage of Households	splodes		Poun	Pounds Harvested	,	Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total	Mean HH Percapita	ercapita	Total Units	Mean HH	Harvest
Non-Salmon Fish	89.20	54.10	48.60	75.70	27.00	6074	116.81	35.72	6074 Pounds	116.81	44%
Non-Salmon [Commercial Gear]			10.80		2.70	578	11.12	3.46	578 Pounds	11.12	88%
Non-Salmon [Non-Commercial Gear]			29.70			3544	68.15	20.84	3544 Pounds	68.15	88%
Non-Salmon [Rod and Reef]			16.20			1953	37.56	11.48	1953 Pounds	37.56	37%
Cod	51.40	21.60	18.90	40.50	10.80	385	7.40	2.26	125 Individual	2.40	43%
Cod [Non-Commercial Gear]			16.20			362	96.9	2.13	118 Individual	2.27	46%
Cod [Rod and Reel]			2.70			22	0.42	0.13	7 Individual	0.13	100%
Tom Cod	2.70	2.70	2.70	2.70	0.00	60	90.0	0.02	6 Individual	0.12	100%
Tom Cod [Non-Commercial Gear]			2.70			၉	90.0	0.02	6 Individual	0.12	100%
Tom Cod [Rod and Reef]			0.00			0	0.00	0.0	0	0.00	
Unknown Cod	51.40	21.60	18.90	40.50	10.80	382	7.35	2.25	119 Individual	2.29	45%
Unknown Cod [Non-Commercial Gear]			16.20			360	6.92	2.12	112 Individual	2.15	. 48%
Unknown Cod [Rod and Reef]			2.70			22	0.42	0.13	7 Individual	0.13	100%
Flounder	2.70	2.70	0.0	2.70	0.00	0	0.00	0 .00	0	0.00	
Flounder [Non-Commercial Gear]			0.00			0	000	0.00	0	0.00	
Flounder [Rod and Reel]			0.0			0	0.00	0.0	0	00.00	
Sole	2.70	0.00	0.0	2.70	0.0	0	0.00	0.0		0.00	
Sole [Non-Commercial Gear]			0.00			0	0.00	0.00	0	0.00	
Sole [Rod and Reef]			0.00			0	0.00	0.0	0	0.00	
Halibut	81.10	40.50	32.40	67.60	18.90	4652	89.46	27.36	4652 Pounds	89.46	54%
Halibut [Commercial Gear]			8.10		2.70	527	10.13	3.10	527 Pounds	10.13	74%
Halibut [Non-Commercial Gear]			8.10			2466	47.42	14.50	76 Individual	1.46	878
Halibut [Rod and Reel]			2.70			1658	31.88	9.75	63 Individual	1.21	44%
Herring	27.00	16.20	10.80	21.60	5.40	420	8.08	2.47	12 6 Gal Bckt	0.23	58%
Herring [Commercial Gear]			2.70		0.0	%	96.0	0.29	1 6 Gal Bckt	0.02	. 100%
Herring [Non-Commercial Gear]			8.10			369	7.10	2.17	10 6 Gal Bold	0.19	70%
Herring [Rod and Reef]			0.0			0	0.00	0.0	0	0.0	
Roe on Kelp	0.00	000	0.0	0.0	000	0	0.0	8	0	000	
Roe on Kelp [Non-Commercial Gear]			0.0			0	0.0	8	0	0.00	
Roe on Kelp [Rod and Reel]			0.0			0	0.0	0.0	0	0.00	
Rockfish	21.60	10.80	10.80	13.50	5.40	171	3.29	10.	65 Individual	1.25	%99
Rockfish [Non-Commercial Gear]			8.10			139	2.67	0.82	44 Individual	0.85	70%
Rockfish [Rod and Reel]			5.40			32	0.62	0.19	21 Individual	0.40	76%
Red Rockfish	16.20	8.10	8.10	10.80	5.40	118	2.27	0.69	30 Individual	0.58	80%
Red Rockfish (Non-Commercial Gear)			8.10			118	2.27	0.69	30 Individual	0.58	80%
Red Rockfish [Rod and Reel]			00:00			0	0.00	0.00	0	0.00	

Table 5. Estimated Harvest and Use of Fish; Game, and Plant Resources, Larsen Bay, 1986

		Percenta	Percentage of Households	saholds	Ī	Pound	Pounds Harvested		Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	Αŧ	Harv	Recv	Give	Total	Mean HH Percapita	ercapita	Total Units	Mean HH	Harvest
			•			,	į		4.1	74.0	7687
Sea Bass	20.51	0 .5	9.0	3	3	7*	500	0.43	ZO MICHARAGES	ָּבְּיִי בְּיִבְּיִי	200
Sea Bass [Non-Commercial Gear]			2.70			21	6	0.12	14 Individual	0.27	#/OI
Sea Bass [Rod and Reel]			2.70			7	0.40	0.12	14 Individual	0.27	107%
Unknown Rockfish	2.70	2.70	2.70	0.0	0.00	10	0.19	0.06	7 Individual	0.13	100%
Unknown Rockfish [Non-Commercial Gear]			0.00			•	0.00	0.00	0	0.00	
Unknown Rockfish [Rod and Reef]			2.70			5	0.19	90:0	. 7 Individual	0.13	100%
lrish Lord	5.40	00.0	0.00	5.40	000	0	00.0	0.00	.0	0.00	
Irish Lord [Non-Commercial Gear]			0.0			0	0.00	0.00	0	0.00	
Irish Lord [Rod and Reef]			0.00			•	0.0	0.00	0	0.00	
. Eel	0.00	0.0	0.00	0.00	8	0	0.00	0.00	0	0.00	
Eel [Non-Commercial Gear]			0.00			0	0.0	0.00		0.00	
Eel [Rod and Reel]			0.00			0	0.00	0.00	0	0.00	
Shark	0.00	0.00	0.00	0.0	8	0	0.00	0.00	0	0.00	
Shark [Non-Commercial Gear]			0.00			0	0.00	0.00	0	0.00	
Shark [Rod and Reef]			0.00			0	0.00	0.00	0	0.00	
Pollock	2.70	2.70	2.70	0.00	8	50	0.38	0.12	14 Individual	0.27	107%
Pollock [Non-Commercial Gear]			2.70			20	0.38	0.12	14 Individual	0.27	107%
Pollock [Rod and Reel]			0.00			0	0.00	0.00	0	0.00	
Trout and Char	78.40	35.10	35.10	62.20	13.50	427	8.21	2.51	305 Individual	5.87	32%
Trout and Char [Non-Commercial Gear]			18.90			187	3.60	1.10	134 Individual	2.58	47%
Trout and Char [Rod and Reef]			16.20			240	4.62	1.41	171 Individual	3.29	49%
Char	29.70	16.20	16.20	16.20	8,10	8	1.85	0.56	69 Individual	1.33	50%
Char [Non-Commercial Gear]			8.10			33	0.63	0.19	24 Individual	0.46	58%
Char [Rod and Reel]			8.10			63	1.21	0.37	45 Individual	0.87	73%
Dolly Varden	29.70	16.20	16.20	16.20	8,10	8	1.85	0.56	69 Individual	1.33	50%
Dolly Varden [Non-Commercial Gear]			4.10			8	0.63	0.19	24 Individual	0.46	41%
Dolly Varden [Rod and Reel]			4.10			83	1.21	0.37	45 Individual	0.87	51%
Trout	75.70	32.40	32.40	62.20	13.50	331	6.37	1.95	236 Individual	4.54	36%
Trout [Non-Commercial Gear]			16.20			153	2.94	0.90	110 Individual	2.12	53%
Trout [Rod and Reef]			16.20			171	3.40	9.	126 Individual	2.42	26%
Lake Trout	5.40	2.70	2.70	2.70	000	ଞ	0.58	0.18	21 Individual	0.40	104%
Lake Trout [Non-Commercial Gear]	-		2.70			8	0.58	0.18	21 Individual	0.40	104%
· Lake Trout [Rod and Reef]			0.00			0	0.00	0.00	0	0.00	
Rainbow Trout	16.20	10.80	8.10	5.40	2.70	25	1.10	0.3 Æ	41 Individual	0.79	65%
Rainbow Trout [Non-Commercial Gear]			2.70			20	0.38	0.12	14 Individual	0.27	107%
Rainbow Trout [Rod and Reel]			5.40			37	0.71	0.22	27 Individual	0.52	85%

Table 5. Estimated Harvest and Use of Fish, Game, and Plant Resources, Larsen Bay, 1986

		Percenta	Percentage of Households	splode		Po	Pounds Harvested	Ţ	Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	Α¤	Harv	Recv	Give	Total	Mean Hit	Percapita	Total Units	Mean HH	Harvest
											216
Steelhead	75.70	27.00	27.00	62.20	13.50	146	7.81	8	104 individual	3.3	2
Steelhead [Non-Commercial Gear]			13.50			æ	1.25	0.38	46 Individual	0.88	52%
Steethead (Rod and Reef)			13.50			28	1.56	0.48	58 Individual	1.12	4 %
Unknown Trout	10.80	8.10	8.10	5.40	000	8	1.88	0.58	70 Individual	1.35	%89 %
Unknown Trout (Non-Commercial Gear)			5.40			\$	0.77	0.24	28 Individual	0.54	75%
Unknown Trout (Rod and Reel)			2.70			59	1.13	0.35	42 Individual	0.81	104%
GAME	05'98	51.40	45.90	64.90	27.00	6723	129.29	39.53	168 Individual	3.23	% Y E
Big Game	86.50	51.40	45.90	62.20	27.00	6602	126.96	38.82	102 Individual	1.96	29%
Brown Bear	5.40	0.0	0.00	5.40	0.0	0	0.00	0.00	0	00.0	
Caribou	2.70	2.70	2.70	2.70	2.70	50	2.04	0.62	1 Individual	0.02	100%
Deer	83.80	51.40	45.90	26.80	24.30	5864	112.77	34.48	98 Individual	1.88	30%
EX	24.30	8.10	8.10	21.60	5.40	632	12.15	3.72	3 Individual	90:0	%99
Goat	0.00	0.0	000	0.0	0.00	0	0.00	0.00	0	00:00	
Moose	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Reindeer	8 0 0	0.0	0.0	0.0	0.0	0	0.0	0.00	0	0.00	
Sheep	0.0	0.00	0.0	0.0	0.00	•	0.00	0.00	0	0.00	
Small Game/Furbearer	24.30	16.20	16.20	10.80	2.70	121	2.33	0.71	66 Individual	1.27	3.1%
Fox	2.70	2.70	2.70	0.0	0.0	0	000	0.00	3 Individual	90.0	. 100%
Red Fox	2.70	2.70	2.70	0.0	0.00	0		000	3 Individual	90:0	100%
Beaver	2.70	2.70	2.70	0.00	0.00	0	0.00	0.00	1 Individual	0.02	100%
Hare	24.30	16.20	16.20	10.80	2.70	121	2.33	0.71	60 Individual	1.15	53%
Land Otter	2.70	2.70	2.70	0.00	0.00	0	0.0	0.00	1 Individual	0.02	100%
Weasel	0000	000	0.00	8	0.00	0	0.00	0.00	0	0.00	
MARINE MAMMALS	24.30	10.80	10.80	21.60	2.70	565		3.32	34 Individual	0.65	28%
Whale	0.00	0.00	000	0.0	0.0	0		0.0	0	00.0	
Black Fin Whale	8	0.00	000	0.0	0.0	•		0.00	0	00.0	
Seal	24.30	8.10	8.10	21.60	2.70	565		3.32	10 Individual	0.19	*0X
Harbor Seal	24.30	8.10	8.10	21.60	2.70	565	_	3.32	10 Individual	0.18	
Sea Lion	5.40	0.00	0.00	5.40	0.00	0		0.00	0	0.00	
Sea Otter	5.40	5.40	5.40	0.00	0.00	0		0.00	24 Individual	0.46	
BIRDS AND EGGS	48.60	27.00	24.30	32.40	10.80	157	3.02	0.92	263 Individual	5.06	39%
Upland Game Birds	13.50	5.40	5.40	8.10	0.0	=	0.21	90:0	15 Individual	0.29	
Ptarmigan	13.50	5.40	5.40	8.10	0.00	=	0.21	90:0	15 Individual	0.29	80%

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Resource Name	U.S.		Att Harv Recv	Recv	Give	Total N	rounds narvested I Mean HH Percapita	Percapita	Total Units	Wean HIH	Harvest
Migratory Birds	40.50	21.60	18.90	27.00	5.4	133	2.56	0.78	164 Individual	3.15	*
Ducks	40.50	21.60	18.90	27.00	5.40	133	2.56	0.78	164 Individual	3.15	41%
Geese	0.0	0.0	0.00	0.0	8	0	0.00	0.00	•	0.00	
Eggs	29.70	10.80	10.80	18.90	5.40	12	0.23	0.07	83 Individual	1.60	61%
MARINE INVERTEBRATES	89.20	64.90	29.50	70.30	48.60	4097	78.79	24.09	4096 Pounds	78.77	27%
MARINE INVERTEBRATES-Commercial		13.50	8.10		2.70	445	8.56	2.62	445 Pounds	8.56	81%
MARINE INVERTEBRATES-Non Commercial	89.20	56.80	56.80	70.30	48.60	3651	70.21	21.47	3651 Pounds	70.21	24%
Clams	78.40	48.60	48.60	45.90	32.40	2034	39.12	11.96	216 6 Gal Bckt	4.15	25%
Clams-Non Commercial	78.40	48.60	48.60	45.90	32.40	2034	39.12	1.96	216 6 Gal Bold	4.15	25%
Butter Clams	78.40	48.60	48.60	43.20	32.40	1801	34.63	10.59	192 6 Gal Bold	3.69	23%
Butter Clams-Non Commercial	78.40	48.60	48.60	43.20	32.40	1801	34.63	10.59	192 6 Gal Bckt	3.69	23%
Razor Clams	10.80	2.70	2.70	8.10	2.70	220	4.23	1.29	23 6 Gal Bold	0.44	108%
Razor Clams-Non Commercial	10.80	2.70	2.70	8.10	2.70	220	4.23	1.29	23 6 Gal Bold	0.44	.108%
Horse Clams (Gaper)	2.70	2.70	2.70	0.00	0.00	5	0.25	0.08	1 6 Gal Bckt	0.02	100%
Horse Clams (Gaper)-Non Commercial	2.70	2.70	2.70	0.00	000	5	0.25	0.08	1 6 Gal Bold	0.02	100%
Crabs	62.20	29.70	24.30	51.40	10.80	1093	21.02	6.43	869 Individual	16.71	26%
Crabs-Commercial		13.50	8.10		2.70	445	8.56	2.62	284 Individual	5.46	80%
Crabs-Non Commercial	62.20	18.90	18.90	51.40	8.10	648	12.46	3.81	585 Individual	11.25	%09
Dungeness Crab	40.50	16.20	13.50	32.40	8.10	253	4.87	1.49	361 Individual	6.94	82%
Dungeness Crab-Commercial		5.40	2.70		0.00	5	0.29	0.09	21 Individual	0.40	104%
Dungeness Crab-Non Commercial	40.50	10.80	10.80	32.40	8.10	238	4.58	1.40	340 Individual	6.54	87%
King Crab	27.00	16.20	13.50	21.60	0.0	3	1.81	0.55	41 Individual	0.79	53%
King Crab-Commercial		5.40	2.70		0.00	32	0.62	0.19	14 Individual	0.27	107%
King Crab-Non Commercial	27.00	10.80	10.80	21.60	0.00	61	1.17	0.36	27 Individual	0.52	62%
Tanner Crab	51.40	24.30	18.90	40.50	8.10	747	14.37	4.39	467 Individual	86.98	79%
Tanner Crab-Commercial		13.50	8.10		2.70	398	7.65	2.34	249 Individual	4.79	%69
Tanner Crab-Non Commercial	51.40	13.50	13.50	40.50	5.40	348	69.9	2.05	218 Individual	4.19	72%
Cockles	5.40	5.40	5.40	0.00	0.00	99	1.27	0.39	7 6 Gal Bcid	0.13	85%
Cockles-Non Commercial	5.40	5.40	5.40	0.00	0.0	98	1.27	0.39	7 6 Gal Bold	0.13	85%
Geoducks	0.0	0.00	0.00	0.00	0.00	0	0.00	0.00	•	0.0	
Geoducks-Non Commercial	0.0	0.0	000	0.00	0.00	0	8	0.0	0	0.00	
Scallops	16.20	5.40	2.70	13.50	2.70	28	0.54	0.16	28 Pounds	0.54	107%
Scallops-Non Commercial	16.20	5.40	2.70	13.50	2.70	28	0.54	0.16	28 Pounds	0.54	107%
Mussels	16.20	10.80	10.80	5.40	2.70	9	0.77	0.24	4 6 Gal Bckt	90.0	20%
Mussels-Non Commercial	16.20	10.80	10.80	5.40	2.70	40	0.77	0.24	4 6 Gal Bckt	0.08	50%

Table 5. Estimated Harvest and Use of Fish, Game, and Plant Resources, Larsen Bay, 1986

Resource Name Use				•						•	
		ΑĦ	Harv	Recv	Give	Total	Mean HH Percapita	Percapita	Total Units	Mean HH	Harvest
		24.30	24.30	16.20	8.10	93	1.79	0.55	10 6 Gal Bold	0.19	%6C
	37.80 2	24.30	24.30	16.20	8.10	83	1.79	0.55	10 6 Gal Bold	0.19	%60
Bidarkis (large) 37.80		24.30	24.30	16.20	8.10	83	1.79	0.55	10 6 Gal Bold	0.19	*60
Bidarkis (large)-Non Commercial 37.80		24.30	24.30	16.20	8.10	83	1.79	0.55	10 6 Gal Bckt	0.19	38%
	-	43.20	43.20	40.50	18.90	268	10.92	3.34	142 Individual	2.73	%06
Octopus-Non Commercial 70.30	•	13.20	43.20	40.50	18.90	268	10.92	3.34	142 Individual	2.73	30%
Sea Cucumber 5.4		2.70	2.70	2.70	2.70	0	0.00	0.00	0	00:0	
Sea Cucumber-Non Commercial 5.4	5.40	2.70	2.70	2.70	2.70	0	0.00	0.00	0	000	
Sea Urchin 32.40	•	06.81	18.90	10.80	10.80	82	1.58	0.48	27 6 Gal Bckt	0.52	%6S
Sea Urchin-Non Commercial 32.40		18.90	18.90	10.80	10.80	82	1.58	0.48	27 6 Gal Bolt	0.52	%6 <u>9</u>
Shrimp 27.00		8.10	5.40	21.60	2.70	77	1.48	0.45	77 Pounds	1.48	%96
Shrimp-Commercial		2.70	0.00		000	0	0.00	0.00	0	0.00	
Shrimp-Non Commercial 27.00	8	5.40	5.40	21.60	2.70	11	1.48	0.45	77 Pounds	1.48	%96
	8.10	8.10	8.10	0.00	2.70	1	0.27	0.08	35 Quarts	0.67	85%
Snails-Non Commercial 8.1		8.10	8.10	000	2.70	-	0.27	0.08	35 Quarts	0.67	%58
Limpets 2.7	2.70	2.70	2.70	0.00	00.0	-	0.02	0.01	3 Quarts	90.0	100%
Limpets-Non Commercial 2.7	2.70	2.70	2.70	0.00	8	-	0.05	0.01	3 Quarts	90.0	100%
PLANTS AND BERRIES 59.50		54.10	54.10	24.30	32.40	614	11.81	3.61	614 Pounds	11.81	37%
Berries 59.50		54.10	54.10	21.60	29.70	375	7.21	2.21	375 Quarts	7.21	24%
Plants/Greens/Mushrooms 16.2	16.20	13.50	13.50	8.10	5.40	239	9.4	141	239 Quarts	99.4	%69
Seaweed/Kelp 2.7	2.70	2.70	2.70	2.70	2.70	0	0.00	0.00	0	00:00	

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Table 6. Estimated Harvest and Use of Fish, Game, and Plant Resources, Old Harbor, 1986

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Number of Households Sampled ≈ Number of Households in Community ≈

Estimated Number of People in Community = 378.63

	L	Percenta	Percentage of Households	abolds		Pour	Pounds Harvested		Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	¥	Har∨	Recv	Give	Total	Mean HH Percapita	Percapita	Total Units	Mean HH	Harvest
ALL RESOURCES	100.00	97.70	97.70	84.10	79.50	160255	1346.68	423.24	60255 Pounds	1346.68	308
FISH	93.20	93.20	88.60	68.20	59.10	86599	727.72	228.71	86599 Pounds	727.72	43%
FISH [Commercial Gear]			47.70		20.50	45606	383.24	120.45	45606 Pounds	383.24	\$28
FISH [Non-Commercial Gear]			26.80			24544	206.25	64.82	24544 Pounds	206.25	78%
FISH [Rod and Reef]			77.30			16449	138.23	43.44	16449 Pounds	138.23	54%
SALMON	93.20	93.20	88.60	52.30	45.50	70957	596.28	187.40	14210 Individual	119.41	45%
Salmon [Commercial Gear]			45.50		13.60	41306	347.11	109.09	8441 Individual	70.93	27%
Salmon [Non-Commercial Gear]			26.80			21877	183.84	57.78	4311 Individual	36.23	80%
Salmon [Rod and Reel]			63.60			7774	65.33	20.53	1458 Individual	12.25	26%
Chum Salmon	63.60	68.20	65.90	29.50	25.00	16733	140.61	44.19	3053 Individual	25.66	46%
Chum Salmon [Commercial Gear]			36.40		6.80	9915	83.32	26.19	1809 Individual	15.20	965%
Chum Salmon [Non-Commercial Gear]			31.80			4609	38.73	12.17	841 Individual	7.07	91%
Chum Salmon [Rod and Reel]			36.40			2209	18.56	5.83	403 Individual	3.39	25%
Coho Salmon	84.10	84.10	81.80	43.20	36.40	32072	269.51	84.70	4911 Individual	41.27	41%
Coho Salmon [Commercial Gear]			43.20		6.80	15524	130.45	41.00	2377 Individual	19.97	47%
Coho Salmon [Non-Commercial Gear]			45.50			12133	101.96	32.04	1858 Individual	15.61	83%
Coho Salmon [Rod and Reel]			26.80			4415	37.10	11.66	676 Individual	5.68	% 69
Chinook Salmon	2.30	4.50	4.50	2.30	2.30	1490	12.52	3.94	135 Individual	1.13	155%
Chinook Salmon [Commercial Gear]			2.30		0.00	1490	12.52	3.94	135 Individual	1.13	155%
Chinook Salmon [Non-Commercial Gear]			0.00			0	0.0	0.00	0	0.00	
Chinook Salmon [Rod and Reel]			2.30			0	0.00	0.00	0	0.00	
Pink Salmon	72.70	79.50	77.30	36.40	36.40	9420	79.16	24.88	3489 Individual	29.32	44%
Pink Salmon [Commercial Gear]			38.60		9.10	5593	47.00	14.77	2072 Individual	17.41	53%
Pink Salmon [Non-Commercial Gear]			45.50			3023	25.40	7.98	1120 Individual	9.41	%06
Pink Salmon [Rod and Reef]			45.50			803	6.75	2.12	298 Individual	2.50	29%
Sockeye Salmon	45.50	63.60	47.70	25.00	22.70	11243	94.48	29.69	2621 Individual	22.03	%L6
Sockeye Salmon [Commercial Gear]			34.10		11.40	8783	73.81	23.20	2047 Individual	17.20	102%
Sockeye Salmon [Non-Commercial Gear]			25.00			2112	17.75	5.58	492 Individual	4.13	105%
Sockeye Salmon [Rod and Reel]			11.40			349	2.93	0.92	81 Individual	0.68	155%
Salmon Roe	34.10	25.00	18.20	15.90	4.50						
Salmon Roe [Non-Commercial Gear]			18.20								
Salmon Roe iRod and Reell			000								

83% 155% 64% 63% 147% 60% 85% 95% 134% 134% 83% 155% 49% 63% 150% 52% 155% 155% 155% 155% 155% 155% 155% 155% 95% Conf. Limit (+/-) Harvest 36.13 0.59 0.68 0.0 Wean HH 200 0.80 0.80 1.20 0.00 0.0 0.45 0.0 101.31 0.12 2.31 0.59 0.0 0.00 0.00 0.0 0.68 0.00 0.23 0.00 0.45 0.00 0.00 0.00 2.00 0.45 0.00 0.0 0.23 0.45 5 8 Amount Harvested Ş 70 6 Gal Bckt 70 6 Gal Bckt 54 Individual 54 Individual 275 Individual 81 Individual 81 Individual 27 Individual 43 Individual 143 Individual 14 Individual 27 Individual 54 Individual 238 Individual 238 Individual 95 Individual 95 Individual 54 Individual 4300 Pounds 5641 Pounds 300 Pounds 867 Pounds 3675 Pounds 12056 Pounds 0 0 可の 0.00 0.13 31.84 11.36 0.36 20.12 1.3 0.00 0.13 0.00 0.43 0.00 0.43 0.00 0.00 0.00 6.68 9.0 6.68 0.00 0.00 0.00 0.00 0.50 0.00 0.50 0.29 0.00 0.29 Mean HH Percapita মূ 12 Pounds Harvested 0.00 22.41 72.90 9.0 900 800 0.0 36.14 8 6 3.85 3.85 9.0 8 8 8 101.31 36.14 1.14 64.03 21.27 8 21.27 8 80 1.59 1.59 0.91 800 0.91 99.0 800 99.0 0.00 0.00 8675 8 8 8 \$ 85 12056 38 7620 88 89 8 8 2667 162 162 8 4301 2531 8 2531 Total 13.60 6.80 0.0 800 38.60 11.40 0.00 900 3. 2.30 <u>8</u> 40.90 11.40 2.30 GN 34.10 2.3 8 34.10 8.0 0.0 56.80 2.30 800 9.10 0.00 \$ 230 989 Recv Percentage of Households 40.90 18.20 18.20 230 230 000 54.50 22.70 29.50 0.00 15.90 899 8 238 2.30 80 800 238 2.30 230 8 680 238 238 8 80 8 2.30 8 8 230 8 80 230 80 Har 65.90 8.20 8.20 56.80 13.60 89 8 8 80 4. <u>ئ</u> 4. 4 **~**i ₹ 47.70 ၓ 47.70 75.00 8 11.40 9.10 8 89 238 8 8 8.5 Š Unknown Rockfish [Non-Commercial Gear] Unknown Cod [Non-Commercial Gear] Red Rockfish [Non-Commercial Gear] Tom Cod [Non-Commercial Gear] Roe on Kelp [Non-Commercial Gear] Sea Bass [Non-Commercial Gear] Non-Salmon [Non-Commercial Gear] Flounder [Non-Commercial Gear] Unknown Cod [Rod and Reel] Rockfish [Non-Commercial Gear] Herring [Non-Commercial Gear] Red Rockfish [Rod and Reel] Halibut [Non-Commercial Gear] Non-Salmon [Commercial Gear] Cod [Non-Commercial Gear] Sole [Non-Commercial Gear] Roe on Kelp [Rod and Reel] Sea Bass [Rod and Reel] Tom Cod [Rod and Reef] Herring [Commercial Gear] Halibut [Commercial Gear] Non-Salmon [Rod and Reel] Flounder [Rod and Reel] Rockfish [Rod and Reel] Herring [Rod and Reel] Halibut [Rod and Reef] Sole [Rod and Reel] Unknown Rockfish Cod [Rod and Reel] Unknown Cod Red Rockfish Non-Salmon Fish Roe on Kelp Fom Cod Sea Bass Resource Name Flounder Rockfish **Jerring** Halibut 80 Sole

Old Harbor, 1986

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Table 6. Estimated Harvest and Use of Fish, Game, and Plant Resources, Old Harbor, 1986

		Percentage of Households	e of Hous	splods		Pound	Pounds Harvested		Amount Harvested	95% Conf. Limit (+/-)
Resource Name	Use	Αt	Harv	Recv	Give	Total M	Mean HH Percapita	ercapita	Total Units Mean HH	Harvest
Unknown Rockfish (Rod and Reel)			0.0			0	0.0	000	0.00	~
lrish Lord	800	000	0.0	0.0	0.0	0	0.00	0.0	000	
hish I and INon-Commercial Gear			000			0	0.00	8	000	-
hish I ord (Rod and Reel)			000			0	0.0	0.00	0000	6
	8	000	00.0	00.0	0.00	•	0.0	0.00	0.00	-
Eel Non-Commercial Gear)			0.00			0	0.00	0.00	0 0.00	-
Eel (Rod and Reel)			00.0			0	0.00	0.00	000	0
Shark	00.0	0.00	0.00	0.00	0.0	0	0.00	00.0	0 0.00	-
Shark (Non-Commercial Gear)			000			0	0.00	0.00	0000	0
Shark (Rod and Reell			0.0			0	0.00	000	0 0.00	0
Pollock	9.10	2.30	000	9.10	2.30	0	0.00	0.00	000	0
Pollock INon-Commercial Gearl			0.0			0	0.00	0.0	0.00	0
Pollock (Rod and Reef)			0.0			0	0.00	0.0	000	
Trout and Char	27.30	18.20	18.20	18.20	9.10	196	1.65	0.52	141 Individual 1.18	75%
Trout and Char INon-Commercial Gearl			2.30			0	0.00	0.00	0 0.00	
Trout and Char Rod and Reell			15.90			196	1.65	0.52		
Char	25.00	15.90	15.90	18.20	6.80	151	1.27	0.40	108 Individual 0.91	89%
Char [Non-Commercial Gear]			2.30			0	0.00	0.0		
Char [Rod and Reef]			13.60			151	1.27	0.40 64	108 individual 0.91	
Dolly Varden	25.00	15.90	15.90	18.20	6.80	151	1.27	5	108 Individual 0.91	89%
Dolly Varden [Non-Commercial Gear]			1.10			0	0.0	0.0		
Dolly Varden [Rod and Reel]			9.80			151	1.27	0		
Trout	4.50	4.50	5.50	0.00	2.30	45	0.38	0.12	Individual	134%
Trout [Non-Commercial Gear]			0.00			0	0.00	0.0		
Trout [Rod and Reef]			4.50			45	0.38	0.12	Individual	134%
Lake Trout	0.0	0.00	0.00	0.00	0.00	0	0.0	0.00		8
Lake Trout [Non-Commercial Gear]			0.00			0	0.0	0.00		8
Lake Trout [Rod and Reef]			0.00			0	0.0	0.0	-	
Rainbow Trout	4 .50	4.50	4.50	0.00	2.30	45	0.38	0.12	Individual	134%
Rainbow Trout [Non-Commercial Gear]			0.00			0	0.00	000		
Rainbow Trout [Rod and Reel]			4.50			45	0.38	0.12	Individual	* 30°
Steelhead	0.0	00.0	0.00	0.00	0.0	0	0.0	0.0		
Steelhead [Non-Commercial Gear]			0.00			0	8	0.0		
Steelhead [Rod and Reel]			0.00			0	0.0	0.0		<u></u>
Unknown Trout	80	0.00	0.00	0.0	0.0	0	8	0.0		.
Unknown Trout [Non-Commercial Gear]			0.0			0	0.00	0.0		-
Unknown Trout [Rod and Reel]			0.00			0	0.0	0.0		
GAME	95.50	75.00	75.00	68.20	52.30	22691	190.68	59.93	_	
Big Game	95.50	75.00	75.00	68.20	52.30	22572	189.68	59.61	_	
Brown Bear	11.40	4.50	35	9.10	4.50	2029	17.05	5.36	5 Individual 0.04	120%
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Table 6. Estimated Harvest and Use of Fish, Game, and Plant Resources, Old Harbor, 1986

		Percenta	Percentage of Households	seholds		Poun	Pounds Harvested	P	Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	¥	Harv	Recv	Give	Total	Mean HH Percapita	ercapita	Total Units	Mean HH	Harvest
					,				-		
Deer	95.50	72.70	72.70	65.90	20.00	19130	90.76	50.52	349 individual	2.93	22%
E	9.10	4.50	3.5	4.50	8	1217	10.23	3.21	5 Individual	9.0	120%
Goat	4.50	2.30	2.30	2.30	00	2	59.	0.52	3 Individual	0.83	133%
Moose	000	000	00.0	00.0	0.0	0	0.0	0.00	0	00.0	
Reindeer	0.00	0.0	0.00	00.0	00.0	0	000	0.0	0	0.00	
Sheep	0.0	0.0	0.0	0.0	00.0	0	0.0	0.0	0	0.0	
Small Game/Furbearer	18.20	18.20	13.60	9.10	4.50	119	8.	0.31	135 Individual	1.13	74%
Fox	4.50	4.50	4.50	0.0	2.30	0	0.00	0.0	46 Individual	0.39	117%
Red Fox	4.50	4.50	4.50	0.00	2.30	0	0.00	0.0	46 Individual	0.39	117%
Beaver	4.50	6.50	4.50	0.00	2.30	0	0.0	0.0	11 Individual	0.09	118%
Hare	11.40	11.40	6.80	9.10	2.30	119	9.	0.31	60 Individual	0.50	%96
Land Otter	4.50	4.50	4.50	0.00	00.0	0	0.00	0.0	19 Individual	0.16	110%
Weasel	00.00	0.00	0.00	0.00	0.00	0	00.00	0.00	0	0.00	-
MARINE MAMMALS	81.80	47.70	47.70	59.10	20.00	40258	201220		300 Individual	2.52	38%
Whale	0.0	0.00	0.0	0.0	0.0	0	0.00	0.00	0	0.00	
Black Fin Whale	0.0	0.00	0.00	0.0	0.0	0	0.00	0.00	0	0.0	
Seal	70.50	38.60	36.40	59.10	38.60	8019	67.39	21.18	127 Individual	1.07	37%
Harbor Seal	70.50	38.60	36.40	59.10	38.60	8019	67.39	21.18	127 Individual	1.07	37%
Sea Lion	79.50	45.50	43.20	26.80	43.20	32238	270.91	85.14	173 Individual	1.45	42%
Sea Otter	80	8	000	0.0	00.0	•	0.00	0.00	0	0.00	
BIRDS AND EGGS	84.10	65.90	65.90	2000	29.50	1329	11.17	3.51	2456 Individual	20.64	34%
Upland Game Birds	2.30	2.30	2.30	000	000	84	0.40	0.13	68 Individual	0.57	154%
Ptarmican	2.30	2.30	2.30	000	00.0	84	0.40	0.13	68 Individual	0.57	154%
Migratory Birds	81.80	52.30	52.30	47.70	25.00	1126	9.46	2.97	1347 Individual	11.32	40%
Ducks	81.80	52.30	52.30	47.70	25.00	1069	8.98	2.82	1320 Individual	1.09	38%
Geese	2.30	2.30	2.30	0.0	0.0	23	0.48	0.15	27 Individual	0.23	155%
Eggs	29.50	27.30	27.30	15.90	11.40	156 361	1.3	0.41	1041 Individual	8.75	51%
MARINE INVERTEBRATES	88.60	84.10	84.10	61.40	47.70	8830	74.20	23.32	8830 Pounds	74.20	34%
MARINE INVERTEBRATES-Commercial		9.10	9.10		2.30	1060	8.91	2.80	1060 Pounds	8.91	¥001
MARINE INVERTEBRATES-Non Commercial	88.60	84.10	84.10	61.40	47.70	07.77	65.29	20.52	7770 Pounds	62.29	37%
Clams	81.80	79.50	79.50	38.60	38.60	5456	45.85	14.41	580 6 Gal Bckt	4.87	48%
Clams-Non Commercial	81.80	79.50	79.50	38.60	38.60	5456	45.85	14.41	580 6 Gal Bckt	4.87	48%
Butter Clams	81.80	79.50	79.50	38.60	38.60	5342	44.89	14.11	568 6 Gal Bckt	4.77	49%
Butter Clams-Non Commercial	81.80	79.50	79.50	38.60	38.60	5342	44.89	14.11	568 6 Gal Bckt	4.77	49%
Razor Clams	9.10	6.80	6.80	0.0	2.30	1.7	96:0	0.30	12 6 Gal Bolt	0.10	108%
Razor Clams-Non Commercial	9.10	6.80	6.80	0.00	2.30	=======================================	96.0	0.30	12 6 Gal Bckt	0.10	108%
Horse Clams (Gaper)	0.00	0.00	0.00	0.00	0.00	0	0.00	000	0	0.0	
Horse Clams (Gaper)-Non Commercial	00.00	0.00	0.00	0.0	000	0	80	000	0	000	
Crabs	45.50	22.70	22.70	34.10	15.90	1779	14.95	4.70	1301 Individual	10.93	64%
Crabs-Commercial		9.10	9.10		2.30	1060	8.91	2.80	663 Individual	5.57	100%
Crabs-Non Commercial	45.50	15.90	15.90	34.10	13.60	719	6.04	8	638 Individual	5.36	83%

Table 6. Estimated Harvest and Use of Fish, Game, and Plant Resources, Old Harbor, 1986

Resource Name	_										
	Use	ΑĦ	Har∨	Recv	Give	Total M	Mean HH Percapita	ercapita	Total Units	Mean HH	Harvest
Dungeness Crab	18.20	9.10	9.10	9.10	9 .80	3 03	2.55	0 80 80	433 Individual	3.64	102%
Dungeness Crab-Commercial		0.00	0.00		0.0	0	000	0.0	0	000	
Dungeness Crab-Non Commercial	18.20	9.10	9.10	9.10	6.80	303	2.55	0.80	433 Individual	3.64	102%
King Crab	20.50	6.80	6.80	11.40	6.80	286	2.40	0.76	124 Individual	<u>2</u>	108%
King Crab-Commercial		0.00	0.00		0.00	0	000	0.00	0	0.00	
King Crab-Non Commercial	20.50	6.80	6.80	1.40	6.80	286	2.40	0.76	124 Individual	20.1	108%
Tanner Crab	34.10	13.60	13.60	29.50	4.50	1190	10.00	3.14	744 Individual	6.25	%68 %
Tanner Crab-Commercial		9.10	9.10		2.30	1060	8.91	2.80	663 Individual	5.57	100%
Tanner Crab-Non Commercial	34.10	4.50	4.50	29.50	2.30	130	1.08	0.34	81 Individual	0.68	114%
Cockles	22.70	18.20	18.20	9.10	4.50	192	1.61	0.51	20 6 Gal Bokt	0.17	% 09
Cockles-Non Commercial	22.70	18.20	18.20	9.10	4.50	192	1.61	0.51	20 6 Gal Bold	0.17	%09
Geoducks	0.0	0.00	0.0	0.00	0.00	0	0.00	0.00	•	0.00	
Geoducks-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Scallops	2.30	0.00	0.0	0.00	0.00	0	0.00	0.0	0	0.00	
Scallops-Non Commercial	2.30	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Mussels	4.50	4.50	3.5	0.00	2.30	29	0.24	0.08	3 6 Gal Bckt	0.03	133%
Mussels-Non Commercial	4.50	4.50	3.5	0.00	2.30	59	0.24	0.08	3 6 Gal Bold	0.03	133%
Chitons	65.90	61.40	61.40	29.50	36.40	727	6.11	1.92	77 6 Gal Bckt	0.65	%29
Chitons-Non Commercial	65.90	61.40	61.40	29.50	36.40	727	6.11	1.92	77 6 Gal Bold	0.65	57%
Bidarkis (large)	65.90	61.40	61.40	29.50	36.40	727	6.11	1.92	77 6 Gal Bckt	0.65	27%
Bidarkis (large)-Non Commercial	65.90	61.40	61.40	29.50	36.40	727	6.11	1.92	77 6 Gal Bold	0.65	57%
Octobus	43.20	15.90	15.90	31.80	11.40	281	2.36	0.74	70 Individual	0.59	64%
Octopus-Non Commercial	43.20	15.90	15.90	31.80	11.40	281	2.36	0.74	70 Individual	0.59	64%
Sea Cucumber	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Sea Cucumber-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Sea Urchin	54.50	47.70	45.50	27.30	29.50	367	3.08	0.97	122 6 Gal Bold	1.03	44%
Sea Urchin-Non Commercial	54.50	47.70	45.50	27.30	29.50	367	3.08	0.97	122 6 Gal Bckt	1.03	44%
Shrimp	4.50	0.00	0.0	2.30	0.00	0	0.0	0.0	0	0.00	
Shrimp-Commercial		000	90.0		000	0	0.0	0.0	0	00.0	
Shrimp-Non Commercial	4.50	0.00	0.00	2.30	0.00	0	0.00	0.0	0	00:0	
Snails	0.0	0.0	0.0	0.0	0.00	0	0.00	0.0	0	00.0	
Snails-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
Limpets	0.00	000	0.00	0.00	0.00	0	0.00	00.0	0	0.00	
Limpets-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
PLANTS AND BERRIES	52.30	20 00	20.00	9.10	11.40	547	4.60	1.44	548 Pounds	4.61	%99
Berries	47.70	45.50	45.50	9.10	9.10	472	3.97	1.25	472 Quarts	3.97	72%
Plants/Greens/Mushrooms	6.80	6.80	6.80	0.0	2.30	9/	0.64	0.20	76 Quarts	0.64	114%
Seaweed/Kelp	0.00	0.00	0.00	0.00	0.00	0	00.0	00:0	0	0.00	

SOURCE: Alaska Dept. of Fish and Game, Division of Subsistence, Household Surveys, 1987.

Table 7. Estimated Harvest and Use of Fish, Game, and Plant Resources, Ouzi 1986.

Estimated Number of People in Community = 195.12

34.00 62.00

Number of Households Sampled = Number of Households in Community =

		Percenta	Percentage of Households	splodes		Poul	Pounds Harvested	þej	Amount Harvested	sted	95% Conf. Limit (+/-)
Resource Name	Use	¥	Harv	Recv	Give	Total	Mean HiH	Percapita	Total Units	Mean HIH	Harvest
'L' RESOURCES	94 10	91 20	91.20	79.40	47 10	78595	1267.66	402.81	*Poind \$6582	A 787 F.	346
FISH	91.20	79.40	76.50	67.60	44 10	50944	82168	261 09	50944 Pounds	82168	75%
FISH [Commercial Gear]			41.20		14.70	13061	210.66	66.94	13061 Pounds	210.66	45%
FISH [Non-Commercial Gear]			64.70			28084	452.97	143.93	28084 Pounds	452.97	30%
FISH [Rod and Reef]			61.80			9799	158.05	50.22	9799 Pounds	158.05	34%
SALMON	85.30	73.50	73.50	52.90	32.40	37591	606.31	192.66	7548 Individual	121.74	26%
Salmon [Commercial Gear]			35.30		14.70	11285	182.02	57.84	2287 Individual	36.89	. 42%
Salmon [Non-Commercial Gear]			55.90			22023	355.21	112.87	4449 Individual	71.76	33%
Salmon [Rod and Reel]			44.10			4283	89.08	21.95	811 Individual	13.08	51%
Chum Salmon	52.90	55.90	52.90	20.60	17.60	2466	88.16	28.01	997 Individual	16.08	39%
Chum Salmon [Commercial Gear]			29.40		11.80	3587	57.85	18.38	655 Individual	10.56	52%
Chum Salmon [Non-Commercial Gear]			29.40			1799	29.02	9.22	328 Individual	5.29	47%
Chum Salmon [Rod and Reel]			14.70			8	129	0.41	15 Individual	0.24	89%
Coho Salmon	79.40	70.60	67.60	41.20	26.50	17194	277.32	88.12	2633 Individual	42.47	28%
Coho Salmon [Commercial Gear]			26.50		8.80	4049	65.31	20.75	620 Individual	10.00	48%
Coho Salmon [Non-Commercial Gear]			80 80 80			9753	157.31	49.99	1493 Individual	24.08	39%
Coho Salmon [Rod and Reel]			35.30			3394	54.74	17.39	520 Individual	8.39	53%
Chinook Salmon	17.60	20.60	17.60	2.90	2.90	161	2.60	0.83	15 Individual	0.24	80%
Chinook Salmon [Commercial Gear]			000		0.00	0	0.00	0.00	0	0.00	
Chinook Salmon [Non-Commercial Gear]			11.80			161	2.60	0.83	15 Individual	0.24	. 80%
Chinook Salmon [Rod and Reef]			290			0	0.00	0.00	0	0.00	
Pink Salmon	82.40	64.70	64.70	4.10	23.50	3348	54.00	17.16	1240 Individual	20.00	25%
Pink Salmon [Commercial Gear]			26.50		5.90	1177	18.98	6.03	436 Individual	7.03	46%
Pink Salmon [Non-Commercial Gear]			38.20			1526	24.61	7.82	565 Individual	9.11	35%
Pink Salmon [Rod and Reef]			29.40			645	10.40	3.31	239 Individual	3.85	59%
Sockeye Salmon	79.40	64.70	64.70	47.10	26.50	11422	184.23	58.54	2662 Individual	42.94	30%
Sockeye Salmon [Commercial Gear]			29.40		11.80	2472	39.87	12.67	576 Individual	9.29	42%
Sockeye Salmon [Non-Commercial Gear]			2000			8785	141.69	45.02	2048 Individual	33.03	35%
Sockeye Salmon [Rod and Reel]			14.70			164	2.65	0.84	38 Individual	0.61	86%
Salmon Roe	35.30	29.40	17.60	14.70	5.90						
Salmon Roe [Non-Commercial Gear]			17.60								
Salmon Roe IRod and Reell			5								

Table 7. Estimated Harvest and Use of Fish, Game, and Plant Resources, Ouzinkie, 1986.

		Percentac	Percentage of Households	aholds	ľ	Pour	Pounds Harvested		Amount Harvested	Ģ	95% Conf. Limit (+/.)
Resource Name	Use	₹	Harv	Recv	Give	Total	Mean HH Percapita	capita	Total Units Me	Mean HH	Harvest
Non-Salmon Fish	91.20	73.50	67.60	61.80	44.10	13352	215.35	68.43	13353 Pounds	215.37	28%
Non-Salmon [Commercial Gear]			29.40		8.80	1776	28.65	9.10	1776 Pounds	28.65	65%
Non-Salmon [Non-Commercial Gear]			20 .00			6061	97.76	31.06	6061 Pounds	97.76	36%
Non-Salmon [Rod and Reef]			20.00			5516	88.97	28.27	5516 Pounds	88.97	38%
Cod	52.90	29.40	26.50	32.40	14.70	1273	20.53	6.52	429 Individual	6.92	50%
Cod [Non-Commercial Gear]			20.60			759	12.24	3.89	237 Individual	3.82	61%
Cod [Rod and Reel]			11.80			514	8.29	2.63	191 Individual	3.08	72%
Tom Cod	2.90	2.90	2.90	0.00	0.00	18	0.29	0.00	36 Individual	0.58	133%
Tom Cod [Non-Commercial Gear]			0.00			0	00.0	0.00	0	0.00	
Tom Cod [Rod and Reel]			2.90			4	0.29	0.09	36 Individual	0.58	133%
Unknown Cod	52.90	29.40	26.50	32.40	14.70	1255	20.24	6.43	392 Individual	6.32	50%
Unknown Cod [Non-Commercial Gear]			20.60			759	12.24	3.89	237 Individual	3.82	61%
Unknown Cod [Rod and Reef]			8.80			496	8.00	2.54	155 Individual	2.50	85%
Flounder	0.00	0.00	0.0	0.0	0.00	0	0.00	0.0	0	0.00	
Flounder [Non-Commercial Gear]			0.0			0	0.00	0.0	0	0.00	
Flounder (Rod and Ree!)			0.00			0	0.00	0.0	o	000	
Sole	0.00	0.00	0.00	000	00.0	0	0.00	0.0	0	0.00	
Sole [Non-Commercial Gear]			80			•	0.00	0.00	0	0.00	
Sole [Rod and Reel]			000			0	0.00	000		0.00	,
Halibut	70.60	67 .60	55.90	22.90	32.40	6291	101.47	32.24		101.47	35%
Halibut [Commercial Gear]			26.50		2 .90	857	13.82	4 .39	857 Pounds	13.82	46%
Halibut [Non-Commercial Gear]			26.50			3780	26.09	19.37	73 Individual	1.18	414
Halibul [Rod and Reel]			8.80			1655	56.69	8.48	50 Individual	0.81	88
Herring	17.60	20.60	14.70	8.80	5.90	1379	22.24	7.07	38 6 Gal Bckt	0.61	73%
Herring [Commercial Gear]			5.90		2.90	919	14.82	4.71	26 6 Gal Bold	0.42	100%
Herring [Non-Commercial Gear]			8.80			459	7.40	2.35	13 6 Gal Bckt	0.21	85%
Herring [Rod and Reel]			000			0	0.00	0.00	0	0.00	
Roe on Kelp	8.0	0.0	0.0	00	0.0	0	0.0	0.00	0	0.0	
Roe on Kelp [Non-Commercial Gear]			000			0	0.00	000	0	0.0	
Roe on Ketp [Rod and Reef]			00			0	0.00	000	o	000	
Rockfish	25.90	38.20	35.30	29.40	17.60	1313	21.18	6.73	602 Individual	9.71	42%
Rockfish [Non-Commercial Gear]			20.60			693	11.18	3.55	219 Individual	3.53	¥09
Rockfish (Rod and Reel)			20.60			620	10.00	3.18	383 Individual	6.18	848
Red Rockfish	38.20	23.50	23.50	17.60	5.90	657	10.60	3.37	164 Individual	2.65	20%
Red Rockfish [Non-Commercial Gear]			20.60			583	9.40	2.99	146 Individual	2.35	26%
Red Rockfish [Rod and Reel]			23			73	1.18	0.37	18 Individual	0.29	133%
Sea Bass	35.30	26.50	23.50	20.60	14.70	574	9.26	2.94	383 Individual	6.18	48%
Sea Bass [Non-Commercial Gear]			2.90			1 09	1.76	0.56	73 Individual	1.18	131%
Sea Bass [Rod and Reel]			20.60	6	0	465	7.50	2.38	310 Individual	5.00	53%
Unknown Rocklish	96. 6	9 8.	3 6 6	3	3	2 6	1.32	2 6	55 Individual	0.83	*
Unknown Rockiish įnon-Commerciai Gearj			3.5		1		0.00	3	0	0.00	

Table 7. Estimated Harvest and Use of Fish, Game, and Plant Resources, Ouzinkie, 1986.

Decoration			Percentac	Percentage of Households	spoye		Pounc	Pounds Harvested		Amount Harvested		95% Conf. Limit (+/-)
Non-Commercial Gear] 2.90 2.90 0.00 0.00 18 0.29 0.00	Resource Name		¥ŧ	Harv	Recv	Give		Aean Hiti P	ercapita	Units	Mean HH	Harvest
sh Lord Roed and Reel												
sch Lord Road-Marcial Gaarj 290 290 000 000 118 0.039 000 118 10.04 000 100 100 100 100 100 100 100 100 1	Unknown Rockfish Rod and Reefl			5.90			82	1.32	0.42	55 Individual	0.89	%96 *
Items	Irish Lord	2.90	2.90	2.90	0.00	000	48	0.29	0.09	18 Pounds	0.29	133%
lish Lord Flood and Reel 2.90 0.00 2.90 0.00	Irish Lord INon-Commercial Gear			0.00			0	0.00	0.00	0	000	
Shark Non-Commercial Gearly	Irish Lord (Rod and Reell			2.90			8	0.29	0.00	18 Pounds	0.29	133%
Eal Roan-Commercial Gear] but for and Reel] but for and Reel] but for and Reel] chark (Road and Reel] chark (THE STATE OF THE S	2.90	0.00	0.00	2.90	0.00	0	0.0	0.00	•	0.00	
Eal Fod and Reel] Shark [Noc and Reel] Sha	Eel Non-Commercial Gearl			0.0			0	0.0	000	•	0.00	
Shark (Non-Commercial Gear) 0.00 <t< td=""><td>Eel (Rod and Reel)</td><td></td><td></td><td>0.00</td><td></td><td>*</td><td>0</td><td>0.00</td><td>000</td><td>0</td><td>00.0</td><td></td></t<>	Eel (Rod and Reel)			0.00		*	0	0.00	000	0	00.0	
Shark (Rod and Reel) 12.90	Shark	0.0	0.0	0.00	0.00	0.00	0	0.0	00.0	0	0.00	
Shark Rod and Reelj 2.90 2.90 2.90 0.00 0.00 0.00 0.00 0.00	Shark Non-Commercial Gearl			0.00			0	0.00	000	0	00.0	
Pollock Rod and Ree	Shark (Rod and Reel)			0.0			0	0.00	000	0	0.00	
Pollock Roban-Commercial Gearl July and Char Mon-Commercial Gearl Late Tourt Rod and Reel Lake Lake Tourt Rod and Reel Lake Lake Rod	Pollock	2.90	2.90	2.90	2.90	000	128	5.06	99.0	91 Individual	1.47	131%
Pollock Rod and Reel] 41.00 41.10 41.20 41.10 41.20 41.10 41.20 41.10 41.20 41.10 41.20 41.10 41.20	Pollock [Non-Commercial Gear]			2.90			128	5.06	990	91 Individual	1.47	131%
Trout and Char (Non-Commercial Gear) Total and Char (Non-Commercial Gear) Total Rod and Reel) Lake Trout Rod and Reel) Rainbow Trout (Rod and Reel) Rainbow Trout (Rod and Reel) Seelhead (Rod Commercial Gear) Seelhead Rod and Reel) Seelhead Rod and Reel Rod	Pollock [Rod and Reel]			0.00			0	0.00	000	•	0.00	
Trout and Char [Non-Commercial Gear] Trout and Char [Non-Commercial Gear] Trout and Char [Non-Commercial Gear] Trout [Non-Commercial Gear] Lake Trout [Non-Commercial Gear] Lake Trout [Non-Commercial Gear] Lake Trout [Non-Commercial Gear] Lake Trout [Non-Commercial Gear] Rainbow Trout [Non-Commercial Gear] Rainbow Trout [Non-Commercial Gear] Rainbow Trout [Non-Commercial Gear] Rainbow Trout [Non-Commercial Gear] Steelhead [Non-Comm	Trout and Char	61.80	20.00	44.10	29.40	23.50	2951	47.60	15.12	2108 Individual	88	42%
Trout and Charl Rod and Reel Charles	Trout and Char [Non-Commercial Gear]			14.70		_	242	3.90	124	173 Individual	2.79	78%
Char (Char (C	Trout and Char [Rod and Ree]			41.20			2709	43.69	13.88	1935 Individual	31.21	43%
Chair [Non-Commercial Gear] 17.66 17.76 17.86 17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.8 17.3 17.4 17.3 17.3 17.4 17.3 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.3 17.4 17.5	Char	29.40	23.50	20.60	14.70	11.80	516	8.32	2.64	368 Individual	5.94	53%
Char [Rod and Reel] Dolly Varden Reel] Trout Trout Trout Trout Trout Trout Trout Trout Trout Rod and Reel] Lake Trout Rainbow Trout Rod and Reel] Steelhead Steelhead Steelhead Steelhead Duknown Trout Rod and Reel] Duknown Trout Rod and Reel] Tout Duknown Trout Rod and Reel] Duknown Trout Rod and Reel] Tout Duknown Trout Rod and Reel] Tout Duknown Trout Rod and Reel] Tout Duknown Trout Rod and Reel] Duknowled Book Tout Duknown Trout Rod and Reel] Duknowled Book Tout Duknowled Book Tout Duknowled Book Tout	Char [Non-Commercial Gear]			5.90			179	2.89	0.92	128 Individual	2.06	100%
Dolly Varden Dolly Varden (Non-Commercial Gear) 29.40 23.50 20.60 14.70 11.80 516 8.32 2.84 Dolly Varden (Non-Commercial Gear) 52.90 47.10 42.00 2.90 179 2.89 0.02 Trout (Non-Commercial Gear) 52.90 47.10 44.10 20.60 20.60 2435 39.27 12.46 17 Trout (Non-Commercial Gear) 47.10 41.20 38.20 17.60 2305 37.18 11.81 11.81 11.81 11.81 11.81 11.81 11.81 11.81 11.81 11.81 11.81 11.80 12.90 <	Char (Rod and Reel)			17.60		_	337	5.44	1.73	241 Individual	3.89	%09
Dolly Varden [Non-Commercial Gear] 2.90 179 2.89 0.92 Trout Dolly Varden [Rod and Reel] 52.90 47.10 44.10 20.60 20.65 2455 39.77 12.46 1.73 Trout [Non-Commercial Gear] 47.10 41.20 38.20 17.60 17.60 2305 37.18 11.81	Dolly Varden	29.40	23.50	20.60	14.70	11.80	516	8.32	2.64	368 Individual	5.94	53%
Dolly Varden [Rod and Reel] 8.80 337 5.44 1.73 5.74 1.73 1.73 1.74 <th< td=""><td>Dolly Varden [Non-Commercial Gear]</td><td></td><td></td><td>2.90</td><td></td><td></td><td>179</td><td>2.89</td><td>0.92</td><td>128 Individual</td><td>5.06</td><td>71%</td></th<>	Dolly Varden [Non-Commercial Gear]			2.90			179	2.89	0.92	128 Individual	5.06	71%
Trout Trout (Non-Commercial Gear) 52.90 47.10 44.10 20.60 20.55 20.35 39.27 12.46 17.04 Trout (Non-Commercial Gear) 47.10 41.20 2372 38.26 12.16 11.61<	Dolly Varden [Rod and Reel]			8.80			337	5.44	1.73	241 Individual	3.89	43%
Trout [Non-Commercial Gear] 8.80 64 1.03 0.33 Trout [Rod and Reel] 41.20 38.20 17.60 2372 38.26 12.16 11.81	Trout	52.90	47.10	44.10	20.60	20.60	2435	39.27	12.48	1740 Individual	28.06	42%
Trout [Rod and Reel] 41.20 2372 38.26 12.16 11 Lake Trout Lake Trout Lake Trout 5.90 17.60 17.60 2305 37.18 11.81 11 11 11.80 14.70 8.80 17.60 17.60 2305 37.18 11.81 11 11 11.80 14.70 8.80 38 0.61 0.19 0.00	Trout [Non-Commercial Gear]			8.80			2	1.03	0.33	46 Individual	0.74	106%
Lake Trout Lake Trout Lake Trout Lake Trout Lake Trout Lake Trout Rainbow Trout [Non-Commercial Gear] Steelhead Steelhead [Non-Commercial Gear] Steelhead [Non-Comm	Trout [Rod and Reef]			41.20			2372	38.26	12.16	1694 Individual	27.32	43%
Lake Trout [Non-Commercial Gear] Lake Trout [Non-Commercial Gear] Sample word Trout [Rod and Reel] Steelhead [Non-Commercial Gear] Steelhead [Non-Commercial Gear	Lake Trout	47.10	41.20	38.20	17.60	17.60	2305	37.18	11.81	1647 Individual	26.56	44%
Painbow Trout [Rod and Reel] 35.30 2254 36.35 1155 11	Lake Trout [Non-Commercial Gear]			5.90			51	0.82	0.26	36 Individual	0.58	133%
Rainbow Trout Tile of Properties 11.80 14.70 8.80 0.00 5.90 38 0.61 0.19 . Rainbow Trout [Non-Commercial Gear] Rainbow Trout [Non-Commercial Gear] 14.70 8.80 8.90 2.90 41 0.66 0.21 Steelhead Non-Commercial Gear] 14.70 8.80 8.80 5.90 41 0.66 0.21 Steelhead [Non-Commercial Gear] 2.90 2.90 2.90 2.90 2.90 2.90 2.90 0.00 0.00 Unknown Trout [Non-Commercial Gear] 2.90 2.90 0.00 0.00 0.00 0.00 0.00 0.00 Unknown Trout [Rod and Reel] 79.40 55.90 2.90 47.10 23.50 13651 220.18 69.96 John Rown Trout [Rod and Reel] 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 Sieelhead [Rod and Reel] 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 <td>Lake Trout [Rod and Reel]</td> <td></td> <td></td> <td>35.30</td> <td></td> <td></td> <td>2254</td> <td>36.35</td> <td>11.55</td> <td>1610 Individual</td> <td>25.97</td> <td>45%</td>	Lake Trout [Rod and Reel]			35.30			2254	36.35	11.55	1610 Individual	25.97	45%
Rainbow Trout [Non-Commercial Gear] 2.90 0.00 0.00 0.00 Rainbow Trout [Rod and Reel] 14.70 8.80 8.80 38 0.61 0.19 Steelhead Steelhead [Non-Commercial Gear] 2.90 2.90 2.90 2.90 2.90 2.90 0.00 0.00 Unknown Trout [Non-Commercial Gear] 2.90 2.90 2.90 0.00 0.00 0.00 0.00 0.00 Unknown Trout [Non-Commercial Gear] 2.90 2.90 47.10 23.50 13651 220.18 69.96 Unknown Trout [Rod and Reel] 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 Jame 79.40 55.90 55.90 47.10 23.50 12947 208.82 66.35 Steelhead [Rod and Reel] 79.40 55.90 50.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <td< td=""><td>Rainbow Trout</td><td>11.80</td><td>14.70</td><td>8.80</td><td>0.0</td><td>5.90</td><td>8</td><td>0.61</td><td>0.19</td><td>. 27 Individual</td><td>0. 4</td><td>%96</td></td<>	Rainbow Trout	11.80	14.70	8.80	0.0	5.90	8	0.61	0.19	. 27 Individual	0. 4	%96
Rainbow Trout [Rod and Reel] 8.80 38 0.61 0.19 Steelhead 14.70 8.80 8.80 5.90 41 0.66 0.21 Steelhead [Non-Commercial Gear] 2.90 2.90 2.90 2.90 2.90 2.90 0.00 0.00 Unknown Trout [Non-Commercial Gear] 2.90 2.90 0.00 0.00 0.00 0.00 0.00 0.00 Unknown Trout [Rod and Reel] 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 Junknown Trout [Rod and Reel] 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 Jame 0.00 <t< td=""><td>Rainbow Trout [Non-Commercial Gear]</td><td></td><td></td><td>2.90</td><td></td><td></td><td>0</td><td>0.0</td><td>000</td><td>•</td><td>000</td><td></td></t<>	Rainbow Trout [Non-Commercial Gear]			2.90			0	0.0	000	•	000	
Steelhead 14.70 8.80 8.80 5.90 2.90 41 0.66 0.21 Steelhead [Non-Commercial Gear] 2.90 2.90 2.90 2.90 2.90 2.90 0.00 0.00 0.01 Unknown Trout [Non-Commercial Gear] 2.90 2.90 0.00 0.00 0.00 0.00 0.00 0.00 Unknown Trout [Rod and Reel] 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 ame 0.00<	Rainbow Trout [Rod and Reef]			8.80			8	0.61	0.19	27 Individual	4	#96 6
Steelhead [Non-Commercial Gear] 2.90 13 0.21 0.07 Steelhead [Rod and Reet] 2.90 2.90 2.90 2.90 0.00 0.00 0.00 0.14 Unknown Trout [Non-Commercial Gear] 2.90 2.90 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Unknown Trout [Rod and Reet] 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 rame 0.00	Steelhead	14.70	8.80	8.80	290	2.90	4	99.0	0.21	29 Individual	0.47	75%
Steelhead [Rod and Reel] 5.90 2.80 0.45 0.14 Unknown Trout [Non-Commercial Gear] 2.90 2.90 2.90 0.00 0.00 0.00 Unknown Trout [Rod and Reel] 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 The state of	Steelhead [Non-Commercial Gear]			2.90			5	0.21	0.07	9 Individual	0.15	133%
Unknown Trout [Non-Commercial Gear] Unknown Trout [Non-Commercial Gear] Unknown Trout [Non and Reel] 190 2.90 0.00 0.00 0.00 0.00 0.00 0.00 0.	Steelhead [Rod and Reef]			230			58	0.45	0.14	20 Individual	0.32	%.58
Unknown Trout [Rod and Reel] 2.90 55.90 47.10 23.50 13651 220.18 69.96 and Reel 79.40 55.90 52.90 47.10 23.50 12647 208.82 66.35 and Bear 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Unknown Trout	2.90	2.90	2.90	0.00	00.0	51	0.82	0.26	36 Individual	0.58	133%
Juknown Trout [Rod and Reel] 2.90 55.90 47.10 23.50 13651 220.18 69.96 (2.90 47.10 23.50 12947 208.82 66.35 (2.90 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Unknown Trout [Non-Commercial Gear]			0.00			0	0.0	000	0	000	•
ame 79.40 55.90 55.90 47.10 23.50 13651 220.18 69.96 79.40 55.90 52.90 47.10 23.50 12947 208.82 66.35 66.35 79.40 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Unknown Trout [Rod and Reel]			2.90			51	0.82	0.26	36 Individual	0.58	133%
79.40 55.90 52.90 47.10 23.50 12947 208.82 66.35 66.35 1284 66.35	GAME	79.40	25.90	25.90	47.10	23.50	13651	220.18	96.69	600 Individual	9.68 6	36%
0.00 0.	Big Game	79.40	55.90	52.90	47.10	23.50	12947	208.82	66.35	175 Individual	2.82	28%
5 D 2 D D D D D D D D D D D D D D D D D	Brown Bear	0.0	0.0	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
5.50 T. 0.50 D. 0.50 D	Caribou	5.90	2.90	2.90	2.90	0.00	547	8.82	2.80	4 Individual	0.06	4521

Table 7. Estimated Harvest and Use of Fish, Game, and Plant Resources, Ouzinkie, 1986.

:	;	ben 10000 1	PRIMIDENNI I IN ARMIINAIA	e DIOLE		3	בחתוותם נושו אמאחת	2	ATIOUR	Den	5078 CON. LIMIR (*/-)
Resource Name	eso	¥	Harv	Recv	Give	Total	Mean HIH Percapita	Percapita	Total Units	Mean H#H	Harvest
::0	76.50	2	ç	6	000	3				1	-
	3	9.00	06.20	30.40	22.20	200	50.75	27.74	Too Individual	2.68	76%
EX	32.40	14.70	2.80	29.40	290	1231	19.85	6.31	5 Individual	90.0	#00 1
Goat	8	0.0	8	0.0	8	0	0.00	0.00	0	0.0	
Moose	8 .80	2.90	8	8.80	0.00	0	0.00	0.00	0	0.00	
Reindeer	2.90	0.0	0.00	2.90	0.00	0	0.00	0.00	0	0.00	
Sheep	0.00	0.00	0.00	0.00	0.00	0	0.00	000	0	0.00	
Small Game/Furbearer	44.10	38.20	38.20	11.80	11.80	704	11.35	3.61	425 Individual	6.85	45%
Fox	2.90	2.90	2.90	0.00	2.90	0	000	00.0	18 Individual	0.29	133%
Red Fox	2.90	2.90	2.90	0.00	2.90	0	0.00	0.00	18 Individual	0.29	133%
Beaver	2.90	2.90	2.90	0.0	2.90	0	000	00.0	9 Individual	0.15	133%
Hare	44.10	38.20	38.20	11.80	11.80	70	11.35	3.61	352 Individual	5.68	41%
Land Otter	2.90	2.90	2.90	0.00	2.90	•	0.0	0.00	27 Individual	0.44	133%
Weasel	2.90	2.90	2.90	0.00	2.90	0	00.0	000	18 Individual	0.29	133%
MARINE MAMMALS	58.80	47.10	47.10	26.50	23.50	5855	94.44	30.01	80 Individual	1.29	36%
Whale	2.90	0.00	0.00	2.90	0.0	0	000	000	0	000	
Black Fin Whale	2.90	00.0	000	2.90	000	0	000	000		000	
Seal	52.90	44.10	44.10	17.60	23.50	5035	81.21	25.80	67 Individual	108	30%
Harbor Seal	52.90	44.10	44.10	17.60	23.50	5035	81.21	25.80	67 Individual	5	30%
Sea Lion	17.60	11.80	8.80	11.80	2 90	821	13.24	421	13 Individual	0.21	270
Sea Offer	000	000	000	90	8		5	5		8	Š
PIDDO AND COC	07 60	20.00	36	3	3 6		30.0	300		0.00	
DIACO AND EGGS	05.40	2 5	30.0	3 3	38.20	1708	27.55	8.75		57.32	36%
Upland Game Birds	96.	2.90	2.90	7.30	28	52	0.40	0.13	36 Individual	0.58	. 133%
Ptarmigan	2.90	2.90	5.90	5.90	2.90	25	0.40	0.13	36 Individual	0.58	133%
Migratory Birds	82.40	58.80	55.90	41.20	32.40	1401	22.60	7.18	1643 Individual	26.50	368
Ducks	82.40	58.80	22.90	41.20	32.40	1287	20.76	9.9	1588 Individual	25.61	41%
Geese	11.80	11.80	8.80	5.90	2.90	115	1.85	0.59	55 Individual	0.89	72%
Eggs	47.10	44.10	41.20	29.40	26.50	281	4.53	1.4	1875 Individual	30.24	41%
MARINE INVERTEBRATES	76.50	61.80	61.80	52.90	26.50	5205	88.79	28.21	5505 Pounds	88.79	36%
MARINE INVERTEBRATES-Commercial		11.80	5.90		2.90	379	6.11	1.94	379 Pounds	6.11	121%
MARINE INVERTEBRATES-Non Commercial	76.50	61.80	61.80	52.90	26.50	5126	82.68	26.27	5126 Pounds	82.68	33%
Clams	76.50	61.80	61.80	41.20	20.60	1681	27.11	8.62	179 6 Gal Bckt	2.89	31%
Clams-Non Commercial	76.50	61.80	61.80	41.20	20.60	1681	27.11	8.62	179 6 Gal Bckt	2.89	31%
Butter Clams	73.50	61.80	61.80	35.30	20.60	1488	24.00	7.63		2.55	28%
Butter Clams-Non Commercial	73.50	61.80	61.80	35.30	20.60	1488	24.00	7.63		2.55	28%
Razor Clams	17.60	8.80	8.80	11.80	2.90	193	3.11	0.99	21 6 Gal Bokt	0.34	100%
Razor Clams-Non Commercial	17.60	8.80	8.80	11.80	2.90	193	3.11	0.99	21 6 Gal Bckt	0.34	100%
Horse Clams (Gaper)	2.90	2.90	2.90	2.90	2.90	0	0.00	0.00	0	00.00	
Horse Clams (Gaper)-Non Commercial	5.90	2.90	2.90	2.90	2.90	0	0.00	0.00	0	0.00	
Crabs	61.80	38.20	38.20	44.10	14.70	1494	24.10	7.66	1089 Individual	17.56	47%
Crabs-Commercial		11.80	5.90		2.90	197	3.18	1.01	128 Individual	2.06	113%
Crabs-Non Commercial	61 RO	15 2N	15 2N	44.10	4470	anc.	Ş				
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Table 7. Estimated Harvest and Use of Fish, Game, and Plant Resources, Ouzinkie, 1986.

		Percentac	Percentage of Households	spiode		Poun	Pounds Harvested	Z	Amount Harvested	95% Conf. Limit (+/-)
Resource Name	Use	Att	Harv	Recv	Give	Total	Mean HH Percapita	Percapita	Total Units Mean F	#H Harvest
Dungeness Crab	47.10	35.30	35.30	29.40	11.80	385	5.89	1.87	Individual	8.42 52%
Dungeness Crab-Commercial		5.90	2.90		0.00	52	0.40	0.13	Individual	
Dungeness Crab-Non Commercial	47.10	32.40	32.40	29.40	1.80	340	5.48	1.74	485 Individual 7.	
King Cab	35.30	29.40	26.50	26.50	14.70	725	11.69	3.72	315 Individual 5.	
King Crab-Commercial		2.90	2.90		0.0	2	1.35	0.43	36 Individual 0.	
King Crab-Non Commercial	35.30	26.50	23.50	26.50	14.70	642	10.35	3.29	279 Individual 4.	
Tanner Crab	38.20	26.50	20.60	32.40	11.80	405	6.48	2.06	252 Individual 4.	
Tanner Crab-Commercial		11.80	2.90		2.90	87	1.40	0.45	55 Individual 0.	
Tanner Crab-Non Commercial	38.20	17.60	17.60	32.40	11.80	315	5.08	1.61		
Cockles	29.40	23.50	23.50	11.80	5.90	331	5.34	1.70	35 6 Gal Bckt 0.	-
Cockles-Non Commercial	29.40	23.50	23.50	11.80	5.90	331	5.34	1.70	35 6 Gal Bckt 0.	
Geodicks	8	8	5.90	00.0	0.0	37	0.60	0.19	73 Individual 1.	1.18 102%
Geoducks-Non Commercial	200	8.80	5.90	00.0	0.00	37	0.60	0.19	73 Individual 1.	
Scallops	8	2.90	2.90	5.90	0.0	8	0.29	0.09	18 Pounds 0	0.29 133%
Scallons-Non Commercial	8.80	2.90	2.90	5.90	000	48	0.29	0.09	18 Pounds 0.	
Missels	8	8.80	8.80	00.0	0.00	47	97.0	0.24	5 6 Gal Bckt 0.	
Mussels-Non Commercial	8.80	8.80	8.80	000	0.00	47	97.0	0.24	5 6 Gal Bckt 0.	0.08
Chitons	55.90	47.10	47.10	26.50	20.60	438	7.06	2.24	47 6 Gal Bckt 0.	
Chitons-Non Commercial	55.90	47.10	47.10	26.50	20.60	438	7.06	2.24		
Bidarkis (large)	55.90	47.10	47.10	26.50	20.60	4 38	7.06	2.24	47 6 Gal Bckt 0.	
Bidarkis (large)-Non Commercial	55.90	47.10	47.10	26.50	20.60	438	7.06	2.24	47 6 Gal Bckt 0.	
Octobus	20.00	20.00	20.00	17.60	17.60	36	15.53	4.94	241 Individual 3.	-
Octobris-Non Commercial	20.00	20.00	2000	17.60	17.60	963	15.53	4.94	241 Individual 3.	3.89 51%
Sea Cucumber	0.00	0.0	0.00	000	0.00	0	0.00	000	0	0.00
Sea Cucumber-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.0	0.00		
Sea Urchin	35.30	35.30	35.30	11.80	11.80	4	0.71	0.23		
Sea Urchin-Non Commercial	35.30	35.30	35.30	11.80	11.80	4	0.71	0.23	捒	
Shrimp	35.30	11.80	1.80	32.40	5.90	44	7.21	2.29		7.21
Shrimp-Commercial		2.90	2.90		0.0	182	2.94	0.93		
Shrimp-Non Commercial	35.30	8.80	8.8	32.40	5.90	264	4.26	1.35	•	
Snails	2.90	2.90	2.90	0.00	0.00	7	0.11	0.0	Quarts	
Snails-Non Commercial	2.90	2.90	2.90	000	0.0	7	0.11	9	Quarts	133%
Limpets	0.00	0.00	0.00	0.00	0.0	0	0.0	0.00	0	0.00
Limpets-Non Commercial	0.00	00.00	0.00	0.00	0.00	0	0.00	0.00		
PLANTS AND BERRIES	85.30	79.40	79.40	20.60	20.60	932	15.03	4.78		
Berries	85.30	79.40	79.40	20.60	20.60	821	13.24	4.21	=	
Plants/Greens/Mushrooms	17.60	14.70	14.70	2.90	0.0	7	1.15	0.36	Quarts	
Seaweed/Kelo	17.60	17.60	17.60	0.00	0.00	₽	0.65	0.21	40 Pounds 0	0.65 120%
COURT Alacka Deat of Cich and Came Division of Subs	istence Ho	II 2	Linveys 1	187						

SOURCE: Alaska Dept. of Fish and Game, Division of Subsistence, Household Surveys, 1987.

Table 8. Estimated Harvest and Use of Fish, Game, and Plant Resources, Port Lions, 1986.

Estimated Number of People in Community = 296.31

65.00 90.00

Number of Households Sampled **
Number of Households in Community **

		Percenta	Percentage of Households	eholds		Pour	Pounds Harvested	8	Amount Harvested	arvested	95% Conf. Limit (+/-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total	Mean HH Percapita	Percapita	Total U	Units Mean HH	
ALL RESOURCES	98.50	93.80	93.80	86.20	75.40	98705	1096.72	333.12	98705 Pounds	s 1096.72	16%
FISH	98.50	90.80	87.70	76.90	61.50	63761	708.46	215.18	63761 Pounds		
FISH [Commercial Gear]	÷		36.90		26.20	16184	179.82	54.62	16184 Pounds	s 179.82	41%
FISH [Non-Commercial Gear]			<u>8</u>			30006	333.43	101.28	30009 Pounds	s 333.43	
FISH [Rod and Reel]			66.20			17568	195.20	59.29	17568 Pounds	s 195.20	
SALMON	93.80	89.20	86.20	58.50	55.40	47428	526.98	160.06	9120 Individual	ual 101.33	19%
Salmon (Commercial Gear)			99 88		20.00	13640	151.56	46.03	2634 Individua		
Salmon [Non-Commercial Gear]			63.10			25933	288.14	87.52	4936 Individua		
Salmon (Rod and Reef)			43.10			7853	87.26	26.50	1551 Individua		
Chum Salmon	12.30	36.90	18.50	3.10	3.10	1320	14.67	4.45	241 Individua	_	
Chum Salmon [Commercial Gear]			7.70		3.10	8	2.	3.35	181 Individua	_	
Chum Salmon [Non-Commercial Gear]			10.80			327	3.63	1.10	60 Individua	ual 0.67	
Chum Salmon [Rod and Reef]			0.00			0	0.0	0.00	0		
Coho Salmon	76.90	86.20	80.00	27.70	43.10	22730	252.56	76.71	3481 Individua	_	18%
Coho Salmon [Commercial Gear]			24.60		12.30	5995	66.61	20.23	918 Individua	_	
Coho Salmon (Non-Commercial Gear)			36.90			10679	118.66	36.04	1635 Individual	_	
Coho Salmon [Kod and Reel]			33.80			8909	67.31	20.44	928 Individua	ual 10.31	
Chinook Salmon	26.20	27.70	13.80	20.00	6.20	4761	52.90	16.07	432 Individua	_	
Chinook Salmon [Commercial Gear]			6.20		3.10	1114	12.38	3.76	101 Individua	ual 1.12	
Chinook Salmon [Non-Commercial Gear]	٠		7.70			3616	40.18	12.20	328 Individua	199 3.64	%08
Chinook Salmon [Rod and Reef]			2 .			ਲ	0.34	0.10	3 Individua	ual 0.03	100%
Pink Salmon	8 .60	73.80	61.50	32.30	27.70	4568	50.76	15.42	1692 Individual	ual 18.80	
Pink Salmon [Commercial Gear]			18.50		12.30	1036	11.51	3.50	384 Individua	ual 4.27	
Pink Salmon [Non-Commercial Gear]			24.60			2012	22.36	6.79	745 Individua	ual 8.28	
Fink Salmon [Rod and Reef]			27.70			1522	16.91	5.14	564 Individua	_	
Sockeye Salmon	81.50	76.90	67.70	47.70	33.80	14048	156.09	47.41	3275 Individua	ual 36.39	
Sockeye Salmon [Commercial Gear]			24.60		15.40	4503	50.03	15.20	1050 Individua	_	
Sockeye Salmon [Non-Commercial Gear]			52.30			9307	103.36	31.39	2168 Individual	_	
Sockeye Salmon [Rod and Reef]			7.70			244	2.71	0.82	57 Individual		
Salmon Roe	16.90	13.80	10.80	6.20	6.20						•
Salmon Roe [Non-Commercial Gear]			10.80								
Salmon Roe [Rod and Reel]			0.00								

Table 8. Estimated Harvest and Use of Fish, Game, and Plant Resources, Port Lions, 1986.

		Percenta	Percentage of Households	eholds	ľ	Pour	Pounds Harvested		Amount Harvested	8	95% Conf. Limit (+/-)
Resource Name	ş	₹	Harv	Recv	Give	Total	Mean Hith Percapita	ercapita	Total	Mean HH	Harvest
Non-Salmon Fish	95.40	76.90	69.20	67.70	4.60	16333	181.48	55.12	16333 Pounds	181.48	%22 .
Non-Salmon [Commercial Gear]			15.40		12.30	2543	28.26	8.58	2544 Pounds	28.27	45%
Non-Salmon (Non-Commercial Gear)			24.60			4075	45.28	13.75	4075 Pounds	45.28	34%
Non-Salmon [Rod and Reef]			52.30		,	9715	107.94	32.78	9714 Pounds	107.93	24%
	46.20	26.20	24.60	26.20	13.80	1646	18.29	5.56	518 Individual	5.76	
Cod [Non-Commercial Gear]			9.20			678	7.53	2.29	212 Individual	2.36	81%
Cod [Rod and Reel]			15.40			896	10.76	3.27	306 Individual	3.40	52%
Tom Cod	1.50	1.50	1.50	0.00	0.00	7	0.02	0.01	4 Individual	9.0	100%
Tom Cod [Non-Commercial Gear]			0.0			0	0.00	0.00	0	0.0	
Tom Cod [Rod and Reel]			1.50			7	0.02	0.01	4 Individual	9.0	100%
Unknown Cod	46.20	24.60	23.10	26.20	13.80	1643	18.26	5.54	514 Individual	5.71	45%
Unknown Cod [Non-Commercial Gear]			9.20			678	7.53	2.29	212 Individual	2.36	81%
Unknown Cod [Rod and Reel]			13.80			996	10.73	3.26	302 Individual	3.36	53%
Flounder	6.60	4.60	4.60	0.00	8.	52	0.83	0.25	25 Individual	0.28	63%
Flounder [Non-Commercial Gear]			1.50			71	0.23	0.07	7 Individual	90.0	100%
Flounder [Rod and Reef]			3.10			ጃ	09:0	0.18 8	18 Individual	0.20	83%
Sole	000	0.00	0.00	0.0	0.0	0	0.00	<u>8</u>	0	0.0	
Sole [Non-Commercial Gear]			0.00			•	0.0	000	0	0.0	
Sole [Rod and Reel]			0.0			•	000	8 0	0	0.0	
Halibut	92.30	67.70	90.00	63.10	8.6	11699	129.99	39.48	11699 Pounds	129.99	21%
Halibut [Commercial Gear]			13.80		10.80	1821	20.23	6.15	1821 Pounds	20.23	48%
Halibut [Non-Commercial Gear]			15.40			2347	26.08	7.92	71 Individual	0.79	46%
Halibut [Rod and Reef]			35.40			7531	83.68	25.42	227 Individual	2.52	26%
Herring	3.10	29.20	6.20	3.10	4 .60	1022	11.36	3.45	28 6 Gal Bckt	0.31	%09 %
Herring [Commercial Gear]			4.60		3.10	723	8.03	2.44	20 6 Gal Bckt	0.22	75%
Herring [Non-Commercial Gear]			1.50			530	3.32	10.	8 6 Gal Bold	0.09	112%
Herring [Rod and Reef]			000			0	000	0.0	•	0.0	
Roe on Kelp	0.0	0.0	0.00	0.00	0.0	0	0.0	8	0	0.00	
Roe on Kelp [Non-Commercial Gear]			00:0			0	0.0	0.0	0	0.0	
Roe on Kelp [Rod and Reel]			000			0	000	000	0	0.00	
Rockfish	18.50	13.80	13.80	9.20	6.20	449	4 .98	1.52	288 Individual	3.20	38%
Rockfish [Non-Commercial Gear]			000		- **	0	0.0	0.0	0	0.0	
Rockfish [Rod and Reef]			13.80		-	449	8.9	1.52	288 Individual	3.20	- 4
Red Rockfish	4.60	1.50	1.50	3.10	0.00	28	0.31	0.09	7 Individual	90:0	100%
Red Rockfish [Non-Commercial Gear]			000			0	0.0	0.0	0	0.0	
Red Rockfish [Rod and Reel]			8.5			78	0.31	9 0 0	7 Individual	0.0	-
Sea Bass	15.40	13.80	13.80	6.20	6.20	8	4.22	1.28	253 Individual	2.81	404
Sea Bass [Non-Commercial Gear]			0.00			0	000	0.00	0	000	
Sea Bass [Rod and Reel]	1		13.80	,		8 8 3	4.22	1.28	253 Individual	2.81	404
Unknown Rockfish	3	8	3 8	3	3	4	5 5	5 6	co individual	5 6	
Unknown Rocklish Inon-Commercial Ge			3		1	1	3	3		3	

Table 8. Estimated Harvest and Use of Fish, Game, and Plant Resources, Port Lions, 1986.

		Percentage of Households	e of Hous	spods		Poun	Pounds Harvested		Amount Harvested	6	95% Conf. Limit (+/-)
Resource Name	Use	Αtt	Harv	Recv	Give	Total	Mean HH Percapita	rcapita	Total Units Mea	Mean HIH	Harvest
: : :						:	;				7
Unknown Rockitsh [Rod and Reef]			<u>8</u>			Ŧ	0.46	0.1	28 Individual	0.31	#SD1
Irish Lord	3.10	3.10	3.10	0.00	1.50	291	3.23	0.98	291 Pounds	3.23	88%
Irish Lord [Non-Commercial Gear]			3.10			291	3.23	0.98	291 Pounds	3.23	%96
Irish Lord [Rod and Reel]			0.00			0	000	0.0	0	000	
Eel	0.00	0.00	0.00	0.00	0.0	0	000	0.00	0	0.0	
Eel [Non-Commercial Gear]			0.00			0	0.00	0.0	0	0.00	
Eel [Rod and Reef]			0.00			0	00.0	0.00	0	0.00	
Shark	1.50	1.50	1.50	0.00	3.	7	0.02	0.01	1 Pounds	0.01	100%
Shark [Non-Commercial Gear]			5.5			7	0.02	0.01	1 Pounds	0.01	100%
Shark [Rod and Reel]			0.00			0	0.00	000	0	0.00	
Pollock	1.50	0.00	0.0	1.50	0.0	0	00.0	0.00	0	0.00	
Pollock [Non-Commercial Gear]			0.00			0	0.00	0.00	0	000	
Pollock (Red and Reel)			0.00			0	00.0	0.0	0	0.00	
Trout and Char	44.60	40.00	40.00	12.30	10.80	1149	12.77	3.88	821 Individual	9.12	27%
Trout and Char [Non-Commercial Gear]			7.70			438	4.87	1.48	313 Individual	3.48	61%
Trout and Char [Rod and Reel]			35.40			711	7.90	2.40	508 Individual	5.64	25%
Char	27.70	24.60	24.60	7.70	9.20	551	6.12	1.86	393 Individual	4.37	31%
Char [Non-Commercial Gear]			7.70			205	2.28	0.69	147 Individual	1.63	55%
Char (Rod and Reel)			18.50			345	3.83	1.16	246 Individual	2.73	38%
Dolly Varden	27.70	24.60	24.60	7.70	9.20	551	6.12	1.86	393 Individual	4.37	31%
Dolly Varden [Non-Commercial Gear]			3.80			205	2.28	0.69	147 Individual	59.	40%
Dolly Varden [Rod and Reef]			9.20			345	3.83	1.16	246 Individual	2.73	28%
Trout	29.20	26.20	26.20	6.20	4.60	299	99.9	2.02	428 Individual	4.76	39%
Trout [Non-Commercial Gear]			4.60			232	2.58	0.78	166 Individual	2	86%
Trout [Rod and Reel]			21.50			366	4.07	1.24	262 Individual	2.91	37%
Lake Trout	7.70	7.70	7.70	0.0	5.	84	0.93	0.28	60 Individual	0.67	55%
Lake Trout (Non-Commercial Gear)			1.50			5	0.11	0.03	7 Individual	0.08	100%
Lake Trout [Rod and Reef]			6.20			74	0.82	0.25	53 Individual	0.59	%09
Rainbow Trout	16.90	15.40	15.40	3.10	5.5	184	2.04	0.62	132 Individual	1.47	45%
Rainbow Trout [Non-Commercial Gear]			0.00			0	0.00	0.00	0	0.0	
Rainbow Trout [Rod and Reel]			15.40			184	2.04	0.62	132 Individual	1.47	42%
Steelhead	9.20	7.70	7.70	3.10	5.5	318	3.53	1.07	227 Individual	2.52	70%
Steelhead [Non-Commercial Gear]	•		3.10			213	2.37	0.72	152 Individual	1.69	94%
Steelhead [Rod and Reel]			4.60			5	1.16	0.35	75 Individual	0.83	94%
Unknown Trout	3.10	3.10	3.10	0.00	0.00	7.	0.16	0.05	10 Individual	0.11	80%
Unknown Trout [Non-Commercial Gear]			3.			5	0.11	0.03	7 Individual	0.08	100%
Unknown Trout [Rod and Reel]			1.50			4	0.04	0.01	3 Individual	0.03	100%
GAME	86.20	69.20	64.60	52.30	38.50	21774	241.93	73.48	625 Individual	6.94	49%
Big Game	86.20	67.70	63.10	52.30	38.50	21519	239.10	72.62	267 Individual	2.97	19%
Brown Bear	3.10	3.10	3.10	0.0	5.	696	10.77	3.27	3 Individual	0.03	%99
Caribou	6.20	3.10	1.50	4.60	1.50	208	2.31	0.70	1 Individual	0.01	100%

Table 8. Estimated Harvest and Use of Fish, Game, and Plant Resources, Port Lions, 1986.

		Percentage of Households	e of Hous	sploye		Pourk	Pounds Harvested	ō	Amount marvested		SON CON. LAIM (17-)
Resource Name	Use	ΛĦ	Harv	Recv	Give	Total	Mean HH Percapita	Percapita	Total Units	Mean HH	Harvest
Jan	83.10	64.60	00.00	0 0.09	33.80	13640	151.56	8.8 8	231 Individual	2.57	22%
311	55.40	29.20	24.60	32.30	18.50	4673	51.92	15.77	21 Individual	0.23	23%
	6.20	500	8	9.	1.50	101	1.12	0.3	1 Individual	0.01	100%
1800	13.80	9	3.10	10.80	3.10	1496	16.62	50.05	3 Individual	0.03	%99
Moorage	3.10	50	50	50	00.0	433	4.81	1.46	7 Individual	90.0	100%
Sheet	8	000	000	55.	0.0	0	000	0.0	0	0.00	
Small Game/Fithearer	13.80	15.40	10.80	3.10	3.10	255	2.83	0.86	359 Individual	3.99	74%
	3.10	4.60	1.50	0.0	0.0	0	0.00	0.00	42 Individual	0.47	102%
Red Fox	3.10	8.6	1.50	000	0.00	0	0.0	0.0	42 Individual	0.47	102%
Reaves	8	6.20	3.10	0.0	0.00	0	0.00	8.0	101 Individual	1.12	101%
	10.80	12.30	9.20	3.10	3.10	255	2.83	0.86	127 Individual	1.41	%69
and Otter	3.10	8.60	5.	0.0	0.00	0	0.00	0.0	89 Individual	0.89	103%
Wease	5.	3.10	0.00	0.00	0.00	0	0.00	0.00	0	0.00	
MARINE MAMMAI S	12.30	12.30	10.80	1.50	6.20	1921	21.34	6.48	71 Individual	0.79	27%
Whale	0.0	000	000	0.00	0.00	•	0.00	0.0	0	00.0	
Black Fin Whale	000	000	000	0.00	0.00	0	9.00	000	0	000	
Seal	10.80	9.20	9.20	5.5	6.20	1450	16.11	4.89	28 Individual	0.31	23%
Harbor Seal	10.80	9.20	9.20	5.5	6.20	1450	16.11	4 .89		0.31	23%
Sea Lion	35	53.	1.50	0.00	0.00	471	5.23	1.59	3 Individual	0.03	*60
Sea Otter	9.6	6.20	4.60	0.00	0.00	0	8	000	40 Individual	0.44	82%
BIRDS AND EGGS	58.50	38.50 52.	36.90	30.80	18.50	298	6.64	2.02	894 Individual	56.8	23%
Upland Game Birds	6.20	7.70	4.60	1.50	0.00	87	0.97	0.29	125 Individual	1.39	878
Parmigan	6.20	7.70	4 .60	1.50	00.0	87	0.97	0.29	125 Individual	1.39	%/6
Migratory Birds	26.90	36.90	35.40	29.20	16.90	4	5.38	1.63	598 Individual	6.64	23%
Ducks	26.90	36.90	35.40	29.20	16.90	<u>\$</u>	5.38	1.63	598 Individual	20.0	23%
Geese	0.00	3.10	0.00	0.00	000	0	0.0	0.0	0	000	
Eggs	12.30	10.80	10.80	3.10	1.50	26	0.29	0.09	172 Individual	1.91	388
MARINE INVERTEBRATES	06'96	84.60	81.50	72.30	53.80	9599	106.66	32.40	9599 Pounds	106.66	280
MARINE INVERTEBRATES-Commercial		24.60	7.70		3.10	98	4.07	124	367 Pounds	9 6	496
MARINE INVERTEBRATES-Non Commercial	96 :96	81.50	81.50	72.30	53.80	9232	102.58	31.16		102.38	F 300
Clams	86.20	75.40	75.40	33.80	38.50	3923	43.59	13.24		S. 5	457
Clams-Non Commercial	86.20	75.40	75.40	33.80	38.50	3923	43.59	13.24	41/ 6 Gal BCK	3.6	#C7
Butter Clams	86.20	75.40	75.40	27.70	88	3714	41.27	12.53	395 6 Gal Book	4. A	A17
Butter Clams-Non Commercial	86.20	75.40	75.40	27.70	38.50 50	3714	41.27	12.53	395 6 Gal Bold	D. 4.	#17
Razor Clams	13.80	4.60	4 .60	10.80	3.10	508	2.31	0.70	22 6 Gal Bckt	0.24	%2/
Razor Clams-Non Commercial	13.80	4.60	6.60	10.80	3.10	20 8	2.31	0.70	22 6 Gal Bckt	0.24	47 /
Horse Clams (Gaper)	00.0	0.00	0.00	0.0	0.0	0	8	0.0	o (0.00	
Horse Clams (Gaper)-Non Commercial	000	0:00	0.00	0.0	8 0	0	8	000	0	30.0	
Crabs	92.30	20.80	44.60	67.70	33.80	3899	43.32	13.16	2178 Individual	24.20	
Crabs-Commercial		24.60	7.70		3.10	998	4.07	1.24	273 Individual	3.03	# 30°
	ره چ	44 EV	44 ED	A7 70	13 RU	4540	7C 6E	11 97	ISOS Individual	71.17	

Table 8. Estimated Harvest and Use of Fish, Game, and Plant Resources, Port Lions, 1986.

		Percenta	Percentage of Households	aholds	ľ	Poun	Pounds Harvested		Amount Harvested	95% Conf. Limit (+/-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total	Mean HH Percapita	rcapita	Total Units Mean HH	
Dungeness Crab	30.80	23.10	18.50	16.90	15.30	74	3.86	1.17	496 Individual 5.51	
Dungeness Crab-Commercial		7.70	3.10		5.5	95	1.02	0.31	132 Individual 1.47	
Dungeness Crab-Non Commercial	30.80	18.50	16.90	16.90	12.30	255	2.83	0.86	364 Individual 4.04	
King Crab	89.20	44.60	40.00	8.60	26.20	2825	31.39	9.53	1228 Individual 13.64	
King Crab-Commercial		6.20	3.10		0.00	159	1.71	0.54	69 Individual 0.77	227
King Crab-Non Commercial	89.20	41.50	40.00	8.6	26.20	5666	29.62	9.00	1159 Individual 12.88	
Tanner Crab	40.00	36.90	24.60	24.60	12.30	726	8.07	2.45	454 Individual 5.04	
Tanner Crab-Commercial		23.10	6.20		1.50	115	1.28	0.39	72 Individual 0.80	28%
Tanner Crab-Non Commercial	40.00	21.50	21.50	24.60	10.80	611	6.79	2.06	382 Individual 4.24	
Cockles	4 .60	8.60	4.60	0.00	35.	78	0.87	0.26	8 6 Gal Bold 0.09	
Cockles-Non Commercial	4.60	9.4	9.4	0.00	1.50	78	0.87	0.26	8 6 Gal Bckt 0.09	
Geoducks	3.10	3.10	3.10	000	0.00	9	0.11	0.03	19 Individual 0.21	
Geoducks-Non Commercial	3.10	3.10	3.10	0.00	0.00	9	0.11	0.03	19 Individual 0.21	_
Scallops	3.10	0.00	000	3.10	0.00	0	00.0	0.00	0.00	8
Scallops-Non Commercial	3.10	0.00	0.00	3.10	0.00	0	0.00	0.00	000	Ø
Mussels	3.10	3.10	3.10	3.5	0.00	4	9.0	0.01	0 6 Gal Bold 0.00	8
Mussels-Non Commercial	3.10	3.10	3.10	1.50	0.00	4	9.	0.01	0 6 Gal Bckt 0.00	Q
Chitons	35.40	33.80	33.80	6.20	9.20	379	4.21	1.28	40 6 Gal Bckt 0.44	
Chitons-Non Commercial	35.40	33.80	33.80	6.20	9.20	379	4.21	1.28	40 6 Gal Bckt 0.44	37%
Bidarkis (large)	35.40	33.80	33.80	6.20	9.20	379	4.21	1.28	40 6 Gal Bckt 0.44	
Bidarkis (large)-Non Commercial	35.40	33.80	33.80	6.20	9.20	379	4.21	1.28	40 6 Gal Bolt 0.44	
Octopus	32.30	24.60	24.60	13.80	15.40	1196	13.29	40.4	299 Individual 3.32	
Octopus-Non Commercial	32.30	24.60	24.60	13.80	15.40	1196	13.29	40.4	299 Individual 3.32	
Sea Cucumber	3.50	35	1.50	0.00	0.00	-	0.01	0.00	1 Quarts 0.01	100%
Sea Cucumber-Non Commercial	1.50	<u>2</u>	5.5	0.00	0.00	-	0.01	0.00	1 Quarts 0.01	
Sea Urchin	10.80	10.80	10.80	0.00	3.10	88	0.31	0.09	9 6 Gal Bckt 0.10	
Sea Urchin-Non Commercial	10.80	10.80	10.80	<u>0</u>	3.10	58	0.31	0.09	9 6 Gal Bckt 0.10	
Shrimp	9.20	8.	3.10	7.70	50	83	0.92	0.28	83 Pounds 0.92	
Shrimp-Commercial		35	0.00		0.00	0	0.00	0.00	000	
Shrimp-Non Commercial	9.20	3.10	3.10	7.70	5.50	8	0.92	0.28	83 Pounds 0.92	72%
Snails	0.00	0.00	000	0.00	0.00	0	0.00	0.00	0 0.00	8
Snails-Non Commercial	0.0	0.0	0.00	0.0	0.00	0	0.00	0.00	0 0:00	8
Limpets	0.0	0.00	0.00	0.0	000	0	0.00	0.00	0 0:00	8
Limpets-Non Commercial	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0 0 0	
PLANTS AND BERRIES	63.10	58.50	58.50	10.80	16.90	1054	11.71	3.56	1054 Pounds 11.71	33%
Berries	61.50	58.50	26.90	9.20	16.90	794	8.82	2.68	793 Quarts 8.81	
Plants/Greens/Mushrooms	9.20	9.20	9.20	1.50	3.10	122	1.36	0.41	122 Quarts 1.3	1.36
Seaweed/Kelp	10.80	6.20	9.20	3.10	0.00	139	2.7	0.47		1.53
SUURCE: Alaska Dept. of Fish and Game, Division of Subsistence, Household Surveys, 1987	stence, Ho	usehold S	urveys, 19	87						

Table 9. Estimated Percentages of Salmon Harvest by Geartype and Species, Akhiok, 1986

	Rem	Removed						
	<u>.</u>	From	Subsis	Subsistence	Z Z	Rod and	₹	Any .
Resource	Commer	Commercial Catch	Meth	Methods	œ	Reel	Mei	hod
	Number	lumber Pounds	Number	Pounds	Number	Number Pounds	Number	Pounds
SALMON								
	0.00%	0.00%	95.62%	94.23%	4.38%	5.77%		
Chum Salmon	0.00%		100.00%	100.00%	0.00%		4.66%	
Coho Salmon	00.0	Ī	87.82%	87.79%		•	.,	787
Chinook Salmon	00.0	0.00%	0.00%	0.00%	0.00%	%00.0		
Pink Salmon	0.00%		100.00%	100.00%			15.57%	
Sockeye Salmon	0.00%	0.00%	99.61%	99.54%	0.47%	0.44%	45.62%	40.25%

Table 10. Estimated Percentages of Salmon Harvest by Geartype and Species, Karluk, 1986

Occurso	From	m W	Subsistence	tence	Rod and	and	Any	
POR DO TO	Number Pounds	Pounds	Number Po	Pour	Number Feel	Po	Number P	8 &
SALMON	4.09%	4.31%	93.48%	93.96%	2.45%	1.74%		
Chum Salmon	0.00%	0.00%	100.00%	100.00%	0.00%	0.00%	0.45%	0.57%
Coho Salmon	8.02%	7.95%	91.98%	92.05%	0.00%	0.00%	8.70%	12.71%
Chinook Salmon	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.24%	5.52%
Pink Salmon	4.15%	4.23%	74.63%	74.66%	21.07%	21.11%	10.94%	6.61%
Sockeye Salmon	3.59%	3.59%	96.41%	96.41%	0.00%	0.00%	77 69%	74 60%
Source: Alaska Department of Fish and Game, Division of Subsistence, Household Survey, 1986	Fish and G	ame, Divisi	on of Subsi	stence, Hou	sehold Sun	/ey, 1986		

Table 11. Estimated Percentages of Salmon Harvest by Geartype and Species, Larsen Bay,1986

	Removed	ved						
	From	٤	Subsistence	lence	Rod and	and	Any	>
Resource	Commercial Catch	al Catch	Methods	spo	Reel	el	Met	pot
	Number	Pounds	Number	Pounds	Number Pounds	Pounds	Number	Pounds
SALMON	51.71%	53.97%	45.20%	41.82%	3.08%	4.21%		
	\$0.00%	20.00%	20.00%	20.00%	0.00%	0.00%	0.22%	0.27%
Coho Salmon	55.76%	55.81%	36.67%	36.67%	7.57%	7.53%	24.09%	32.40%
Chinook Salmon	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.42%	7.78%
Pink Salmon	39.10%	39.00%	%06.09	60.92%	0.00%	0.00%	13.12%	7.30%
Sockeye Salmon	51.33%	51.34%	47.34%	47.34%	1.33%	1.34%	59.11%	52.25%

Source: Alaska Department of Fish and Game, Division of Subsistence, Household Survey, 1986

Table 12. Estimated Percentages of Salmon Harvest by Geartype and Species, Old Harbor, 1986

Subsistence Rod Commercial Catch Methods Re Number Pounds Number Pounds Number S9.40% 58.21% 30.34% 30.83% 10.26% 59.25% 59.25% 27.55% 27.55% 27.56% 13.20% 1	source	Commerc Number		osi Tet	stence nods	Rod	7000	*	2
Commercial Catch Methods Re Number Pounds Number Pounds INImher 59.40% 58.21% 30.34% 30.83% 10.26% Chum Salmon 59.25% 59.25% 27.55% 27.54% 13.20%	source	Commerc Number		<u> </u>	spot		2	Any	<u> </u>
S9.40% 58.21% 30.34% 30.83% 10.26% Chum Salmon 59.25% 59.25% 27.55% 27.54% 13.20%	LMON					_ ~	je.	Method	pod
59.40% 58.21% 30.34% 30.83% Chum Salmon 59.25% 59.25% 27.55% 27.54%	LMON						Pounds	Number	Pounds
59.40% 58.21% 30.34% 30.83% Chum Salmon 59.25% 59.25% 27.55% 27.54%	LMON								
59.25% 59.25% 27.55% 27.54%		59.40%	58.21%	30.34%	30.83%	10.26%	10.96%		
7000 EG 7000 EG 7007 OF 7007 OF	Chum Salmon	59.25%	59.25%	27.55%	27.54%	13.20%	13.20%	21.48%	23.58%
46.40% 48.40% 37.83% 37.83%	Coho Salmon	48.40%	48.40%	37.83%	37.83%	13.77%	13.77%	34.56%	45.20%
Chinook Salmon 0.00% 0.00% 0.00% 0.00% 0.00%	Chinook Salmon	0.00%	0.00%	%00 .0	0.00%	0.00%	0.00%	0.95%	2.10%
Pink Salmon 59.39% 59.37% 32.10% 32.09% 8.54%	Pink Salmon	59.39%	59.37%	32.10%	32.09%	8.54%	8.52%	24.55%	13.28%
78.10% 78.12%	Sockeye Salmon	78.10%	78.12%	18.77%	18.79%	3.09%	3.10%		15.84%

Table 13. Estimated Percentages of Salmon Harvest by Geartype and Species, Ouzinkie, 1986

	Removed	ped						
	From	Ē	Subsistence	tence	Rod and	· pue	Any	>
Resource	Commercial Catch	ial Catch	Methods	spor	Reel	10	Method	ро
	Number	Number Pounds	Number	Pounds	Number	Pounds	Pounds Number Pounds Number Pounds	Pounds
ALMON	30.30%	30.05%	58.94%	58.59%	10.74%	11.39%		
Chum Salmon	65.70%	65.62%	32.90%	32.91%	1.50%	1.46%	13.21%	14.54%
Coho Salmon	23.55%	23.55%	99.70%	56.72%	19.75%	19.74%	34.88%	45.74%
Chinook Salmon	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.20%	0.43%
Pink Salmon	35.16%	35.16%	45.56%	45.58%	19.27%	19.27%	16.43%	8.91%
Sockeye Salmon	21.64%	21.64%	76.93%	76.91%	1.43%	1.44%	35.27%	30.38%

Table 14. Estimated Percentages of Salmon Harvest by Geartype and Species, Port Lions, 1986

		88888
Any Method	Pounds	2.78% 47.93% 10.04% 9.63% 29.62%
Me A	Number	2.64% 38.17% 4.74% 18.55% 35.91%
and el	Pounds	16.56% 0.00% 26.65% 0.00% 33.32% 1.74% rey, 1986
Rod and Reel	Number	17.01% 0.00% 26.66% 0.00% 33.33% 1.74% sehold Surv
tence ods	Spuno	54.68% 24.77% 46.98% 0.00% 44.05% 66.22% lence, Hous
Subsistence Methods	Number	54.12% 24.90% 46.97% 0.00% 44.03% 66.20% n of Subsisi
ved m al Catch	spuno	28.76% 75.30% 26.37% 0.00% 22.68% 32.05% me, Divisio
Removed From Commercial Catch	ladinia	28.88% 75.10% 26.37% 0.00% 22.70% 32.06% Fish and Ga
		Chum Salmon 75.10% 75.30% 24.90% 24.77% 0.00% 0.00% Coho Salmon 26.37% 26.37% 46.97% 46.98% 26.65% 26.25% 2
Resource		SALMON Chum Coho Chino Pink S Socke

TABLE 15. COMPARISON OF SUBSISTENCE HARVEST ESTIMATES FOR KODIAK **ISLAND** BOROUGH COMMUNITIES, POUNDS EDIBLE WEIGHT PER HOUSEHOLD AND PER CAPITA, **1982/83** AND 1986.

	Pounds oe	r Household	Pounds Pe	er Capita
	1982/83	1986	<u>1982/83</u>	<u>1986</u>
Akhiok	1, 979	582	519	162
Karl uk	3, 409	1, 541	863	385
Larsen Bay	1,677	683	404	209
Old Harbor	1,861	1, 347	491	423
Ouzinkie	1, 234	1, 268	369	403
Port Lions	911	1, 097	280	333

Source: Scott et al. 1993

PER CAPITA SUBSISTENCE HARVESTS, POUNDS EDIBLE WEIGHT, BY RESOURCE CATEGORY, KODIAK ISLAND BOROUGH COMMUNITIES, 1982/83 AND 1986 TABLE 16.

Sal	Salmon 1982/31986	986	Other Fish 1 <u>982/31986</u>	ish 11986	Marine Invertebrates 1982/31986	brates 1986	Land Mamma 1982/3198 <u>6</u>	Marine Land Mammals Mammals 1982/31986 1982/319	Marine Mammals 1982/31986	als 1986	Birds & Eggs 1982/31986	Eggs 1986	Wild Plants ^a 1 <u>986</u>
23	238 1	**	29	7	4 4	10	41	31	153	7	13	<u>^</u>	-
58	582 2	255	101	42	13	13	67	45	89	25	=	က	7
Larsen Bay 16	168 10	102	74	36	36	24	62	40	58	က	ည	-	4
Old Harbor 234		187	69	14	30	23	73	09	. 62	106	9	4	-
Ouzinkie 173		193	62	68	51	28	39	20	32	30	12	6	ស
Port Lions 9	98 16	160	66	55	36	32	36	73	œ	9	C.	6	4

a Harvest quantities for wild plant were not collected for 1982/3

Source: Scott et al. 1993

TABLE 17. SUBSISTENCE HARVESTS FOR SELECTED GULF OF ALASKA COMMUNITIES

Community	1986 <u>Population</u> a	Study <u>Year</u>	Per Capita Harvest, Pounds Usable Weiaht
Prince William Sound			
Chenega Bay Cordova Tatitlek Tatitlek	60 2, 053 1 0 8 108	1985/6 1985 1987/8 1988/9	374 164 352 644
Cook Inlet			
Nanwalek Homer Kenai Ninilchik Port Graham Seldovia Tyonek	205 3, 706 6, 647 461 195 552 282	1987 1982 1982 1982 1987 1983	289 94 38 86 227 51 260
Kodiak Island Borough			
Akhiok Chiniak	123 NA	1982/3 1986 1983	519 162 217
Karluk Kodiak City Larsen Bay	107 6,619	1982/3 1986 1982 1982/3	863 385 147 404
Old Harbor	169 380	1986 1982/3 1986	209 491 423
Ouzinkie Port Lions	195 296	1982/3 1986 1982/3 1986	369 403 280 333
Al aska Peni nsul a			
Chignik Bay Chignik Lagoon Chignik Lake False Pass Ivanof Bay Nelson Lagoon Perryville	155 88 146 85 41 50 127	1984 1984 1987/8 1984 1986/7 1984	188 220 279 430 456 258 391

a Source: AlaskaDepartmentofLabor1989

Source: Scott et al. 1993

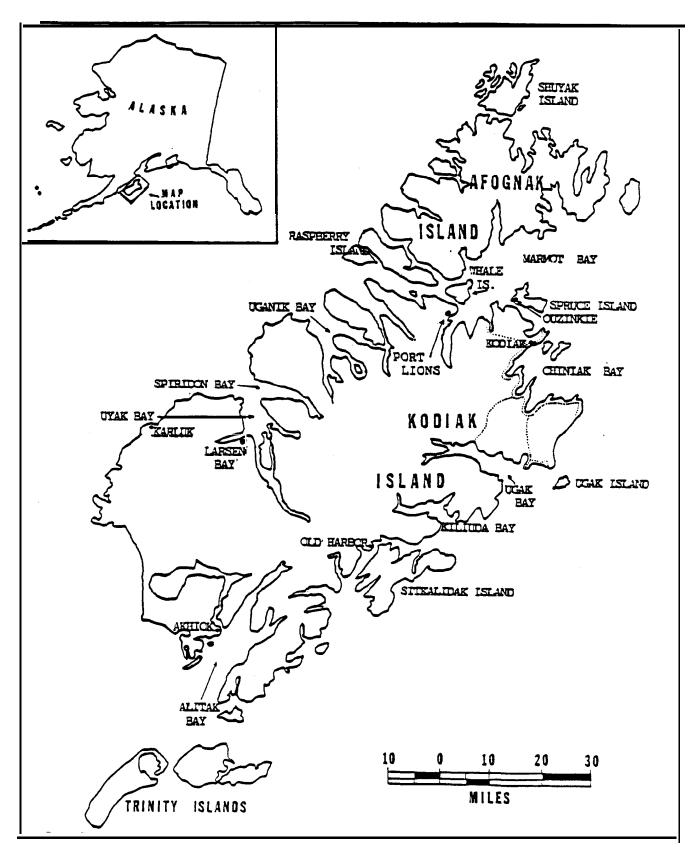
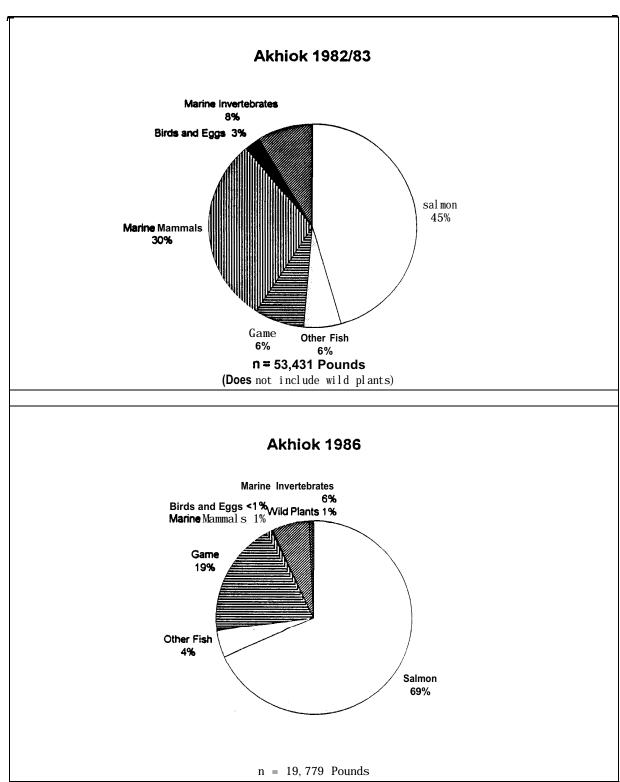


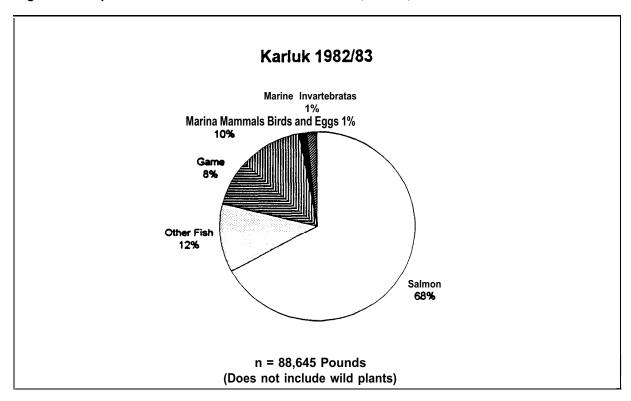
Figure 1. Kodiak Island Region

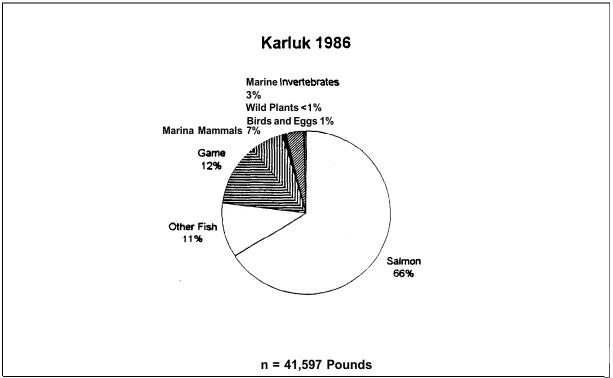
Figure 2. Composition of Subsistence Resource Harvests, Akhiok, 1982/3 and 1986



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1983 and 1987.

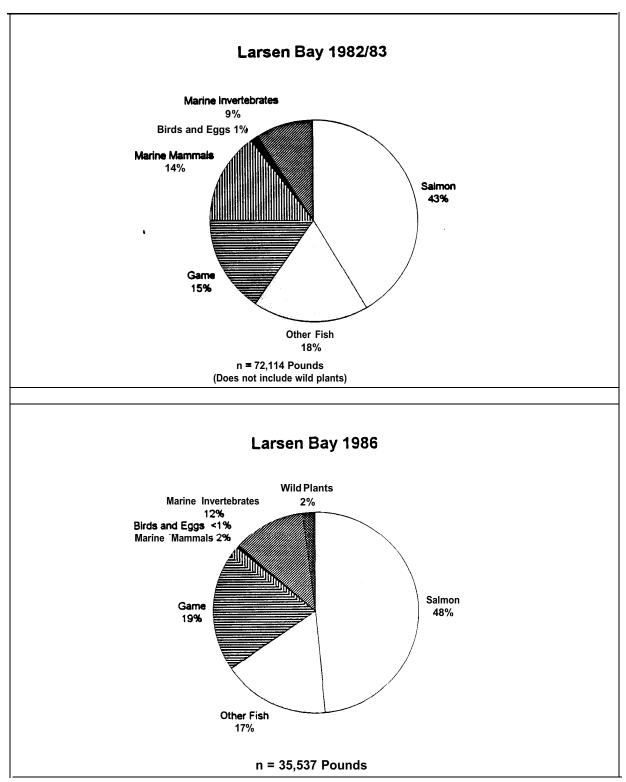
Figure 3. Composition of Subsistence Resource Harvests, Karluk, 1982/3 and 1986





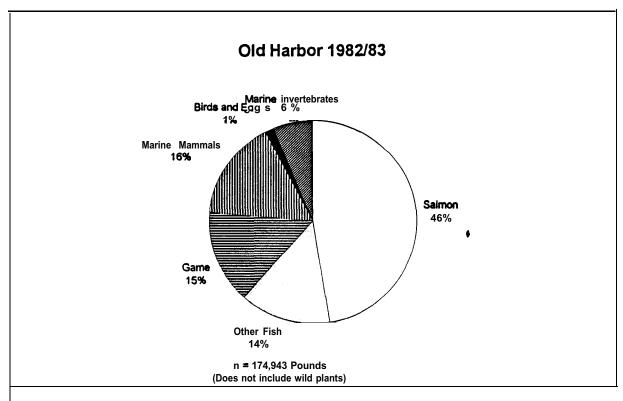
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1983 and 1987.

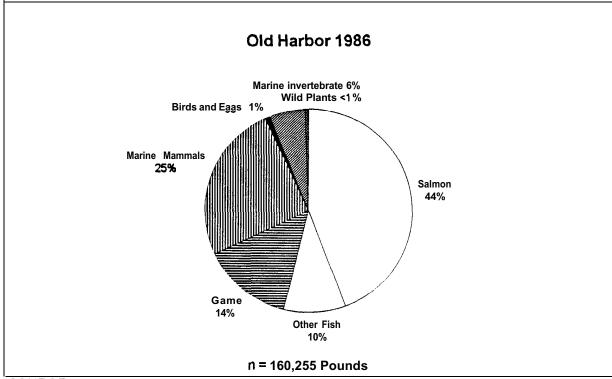
Figure 4. Composition of Subsistence Resource Harvests, Larsen Bay, 1982/3 and 1986



SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1983 and 1987.

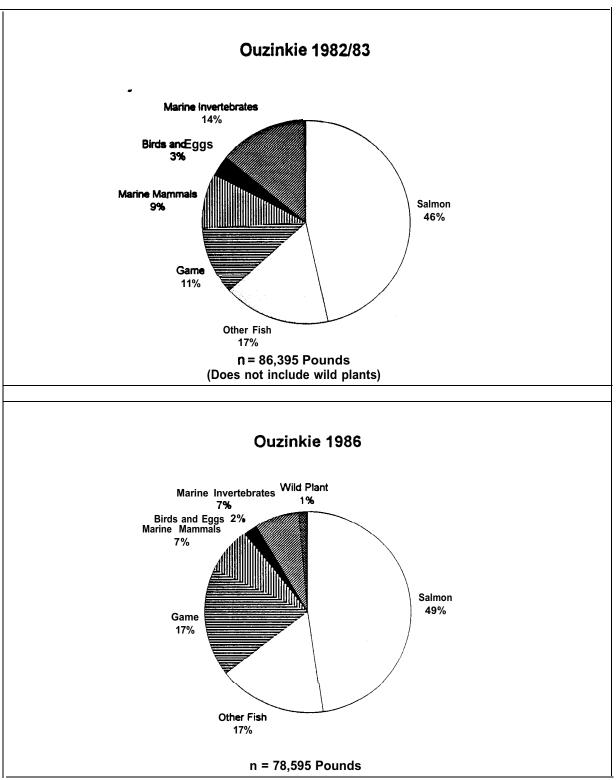
Figure 5. Composition of Subsistence Resource Harvests, Old Harbor, 1982/3 and 1986





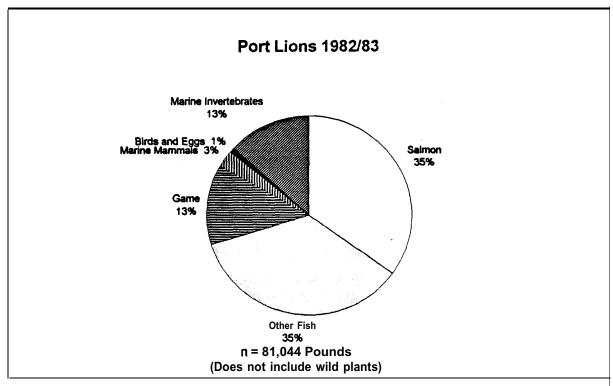
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1983 and 1987.

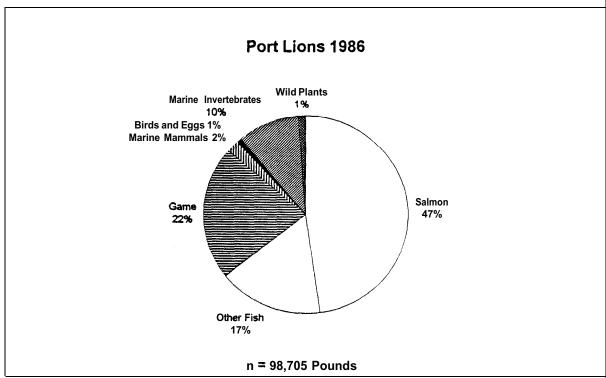
Figure 6. Composition of Subsistence Resource Harvests, Ouzinkie, 1982/3 and 1986



\SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys. 1983 and 1987.

Figure 7. Composition of Subsistence Resource Harvests, Port Lions, 1982/3 and 1986





SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1983 and 1987.

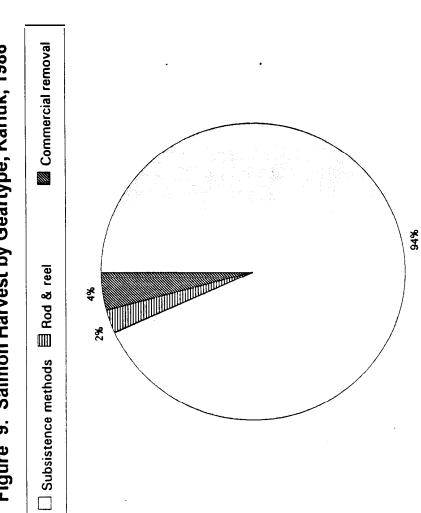
N = 2,788 salmon

%96 %

Figure 8. Salmon Harvest by Geartype, Akhiok, 1986

Subsistence methods Rod & reel

Figure 9. Salmon Harvest by Geartype, Karluk, 1986



N = 3,566 salmon

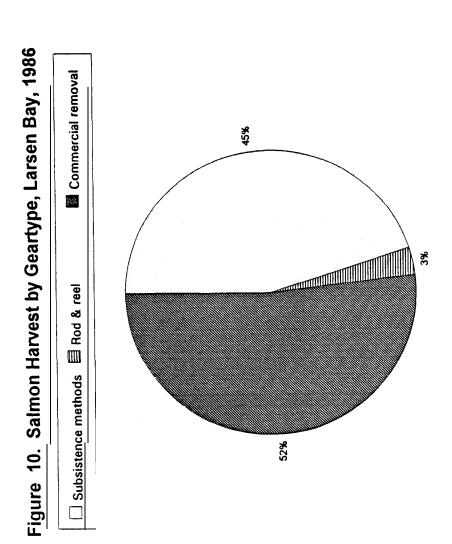
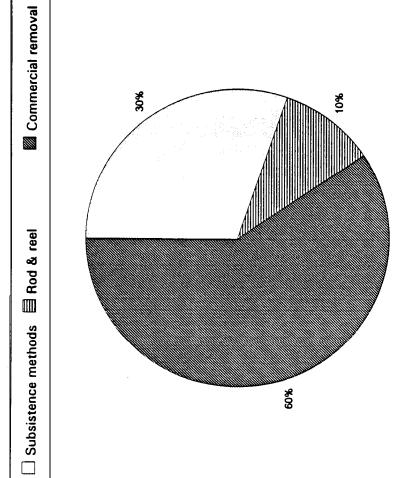


Figure 11. Salmon Harvest by Geartype, Old Harbor, 1986



N = 7,548 salmon

Figure 12. Salmon Harvest by Geartype, Ouzinkie, 1986

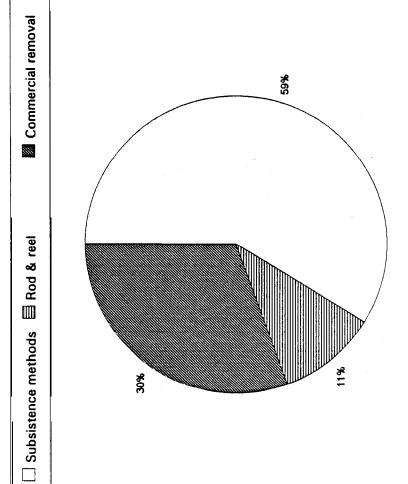
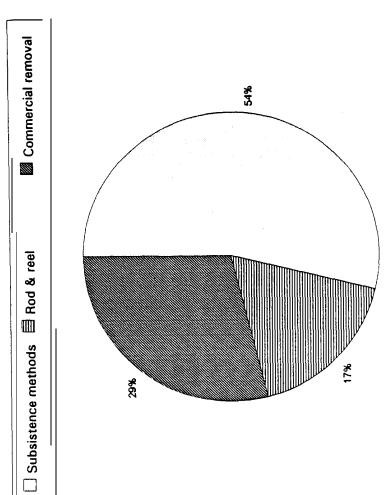


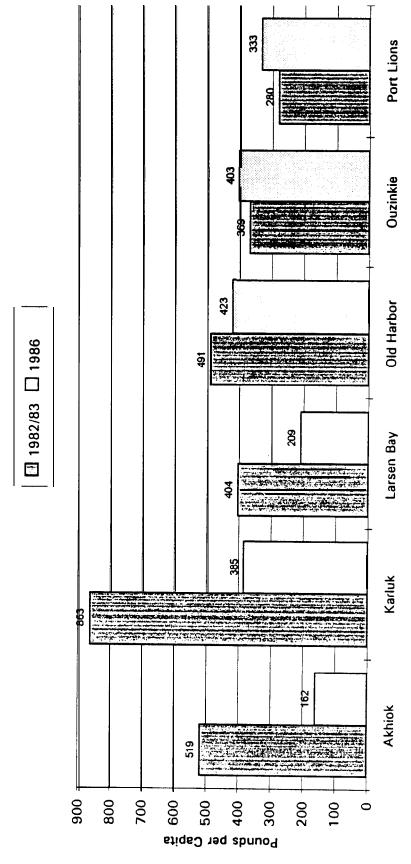
Figure 13. Salmon Harvest by Geartype, Port Lions, 1986



93.8 Port Lions Figure 14. Percentage of Sampled Households Using and Harvesting Wild 91.2 HARVESTING WILD RESOURCES Ouzinkie 8 Resources, Kodiak Island Borough Communities, 1982/3 and 1986 7.76 Old Harbor 8 81.1 Larsen Bay 8 8 Karluk 83.3 1986 **AKPIOK** 8 图 1982/3 98.5 Port Lions 8 Ouzinkie 8 USING WILD RESOURCES 5 Old Harbor 8 97.3 ratsen gaA <u>\$</u> 8 Karluk 8 **AKPIOK** 8 90 70 60 50 40 Percentage of Households

73

Figure 15. Comparison of Subsistence Harvests, Pounds Usable Weight per Capita, Kodiak Island Borough Communities, 1982/83 and 1986



Karluk 1982/3 6\88e1 AelitisT AKhiok 1982/3 1982/3 Old Harbor Figure 16. Subsistence Harvests, Pounds Usable Weight per Capita, 1981 Yea Tonevi 8/789 f 2259 False Old Harbor 1986 1982/3 Larsen Bay Ouzinkie 1 986 Selected Gulf of Alaska Communities Perryille 1984 ☐ Other Communities Karluk 1986 9/9861 Chenega Bay Cuzinkie 1 982/3 **Tatitlek 1 987/8** Port Lions 1986 Nanwalek 1987 Kodiak Communities Port Lions 1 982/3 1984 Chignik Lake Tyonek 1980M Nelson Lagoon 7\8861 msds10 лоч 78e1 1984 Chignik Lagoon Chiniak 1982/3 Larsen Bay 1 986 Chignik Bay 1984 Cordova 1985 AKhiok 1 986 1982/3 Kodiak City S86f 19moH Ninilchik 1982 Seldovia 1982 Kenai 1982 900 800 900 500 700 400 300 200 100 0 Pounds per Capita

APPENDIX A. KODIAK AREA NATIVE ASSOCIATION LETTER

Kodiak Area Native Association



402 Center Avenue **Kodiak**, Alaska 99615 Phone **(907)** 4865725

December 18, 1989

Mr. Jim Fall Regional Supervisor Division of Subsistence 333 Respherry Road Anchorage, Alaska 99518-1599

Dear Jim,

Brenda Schwantes and I reviewed the draft copy of the 1983 and 1986 village survey which was conducted by KANA and the Department of Fish and Game, Subsistence Division.

After reviewing the final draft we have come to basically one conclusion. We feel that the pounds of foods harvested for each village has been calculated as less than what is actually harvested and used. The report states some problems in evaluating the information received. This may be part of the innacuracy as well as the fact that three of the villages surveyed Akhiok, Old Harbor, and Ouzinkie only had an average of 42% of the households surveyed. This average total harvest was used as a representative number of all the households in each particular village.

We realize that the total poundage may vary from year to year but out of curiosity we called four of the village Tribal Council Offices and asked how much salmon and deer each family used. The poundage for salmon was as much as 500 pounds greater than what the survey shows.

Our thanks go to the Alaska Department of Fish and Game for implementing this program. We realize a lot of work has gone into reviewing the information and drawing a readable format. If we can assist the Department in updating this information please ask.

Sincerely,

Trival Operations Coordinator

Brenda Schwantes

Environmental Health Educator

cc: Gary Arenson

Serving the communities of: Akhiok • Karluk • Kodiak • Larsen Bay • Old Harbor • Ouzinkie • Port Lions

APPENDIX B

REVISED 1982/83 HARVEST SURVEY DATA FOR KODIAKBOROUGH COMMUNITIES

Akhiok Karluk Larsen Bay Old Harbor Ouzinkie Port **Lions**

Appendix Table 1. Estimated Harvest and Use of Fish, Game, and Plant Resources, Alchiok, 1982/1983

Number of Households Sampled =	8	Codimental Attended of Secret 100000
	3.	Estimated Number of People in Community = 102.80
Number of Households in Community =	27.00	

		Percentage	age of Households	holds		Pol	Pounds Harvested	ļ	Amount Harvested	peter	195% Conf 1 imit (+/L)
Resource Name	Use	Att	Harv	Recv	Give	Total	Mean HH	Percapita	Total	Mean HH	
ALL RESOURCES	100.00		100.00	85.70	76.20	53431	1978.93	519 47	53431 Pounds	1978.93	16%
FISH	100.00		100 00	71.40	57.10	27500	1018.52	267.36	6237 Individual	231.00	
SALMON	100:00		100.00			24469	906.26	237.89	5792 Individual	214.52	
Chum Salmon	42.90		42.90			2815	104.26	27.37	437 Individual	16.19	
Coho Salmon	95.20		95.20			5840	216.30	56.78	855 Individual	31.67	11%
Chinook Salmon	00:00		0.00			0	0.00	000	0	0.00	
Pink Salmon	100.00		100.00			6053	224.19	58.85	2301 Individual	85.22	14%
Sockeye Salmon	100.00		100 00			9762	361.56	94.91	2199 Individual	81.44	14%
NON-SALMON FISH	85.70		85.70			3031	112.26	29.47	445 Individual	16.48	
Cod	4.80		0.00			0	0.00	0.00	0	0.00	
Flounder	0.00		0.00			0	0.00	0.0	0	0.00	•
Sole	0.00		0.00			0	0.00	0.0	0	0.00	
Halibut	81.00		81 .00			2506	92.81	24.36	69 Individual	2.56	23%
Herring	0.00		0.0			0	0.00	0.00	0	0.00	
Rockfish	0.00		0.00			0	0.00	0.0	0	0.00	
Red Rockfish	0.00		0.00			0	0.00	0.00	0	0.00	
Sea Bass	00:0		00.00			0	0.00	0.00	0	0.00	
Unknown Rockfish	00:00		0.00			0	0.00	000	•	0.00	
Sculpin	4.80		4.80			-	0.04	0.01	1 Individual	0.0	100%
Pollock	00.0		0.00			0	0.00	0.00	0	0.00	
Trout and Char	47.60		45.90			524	19.41	5.09	374 Individual	13.85	38%
Char	47.60		45.90			520	19.26	5.06	372 Individual	13.78	•
Dolfy Varden	47.60		45.90			520	19.26	5.06	372 Individual	13.78	
Trout	00.00		4.80			4	0.15	0.0	3 Individual	0.11	%99
Steelhead	00.00		4.80			4	0.15	0 04	3 Individual	0.11	66%

Appendix Table 1. Estimated Harve nd Use sh, Game, and Plant Resources, Akhiok, 1962/1983

Main		Per	Percentage of Households	holds		Po	Pounds Harvested	8	Amount Harvested	arvested	96% Conf. Limit (+/-)
9520 9050 81.00 61.90 4247 157.30 41.29 111 Inchvidual 9520 9050 81.00 61.90 4247 157.30 41.29 111 Inchvidual 90.00 0.00	Recourse Name	¥		Recv	Give	Total	Mean HH	Percapita			H Harvest
sine 95.20 90.50 61.00 61.50 4247 157.30 41.29 111 Individual m bear 95.20 90.50 61.00 61.50 4221 156.33 41.04 98 Individual ou 0.00 0.00 0.00 0.00 0.00 0.00 0.00 cou 95.20 90.50 221 156.33 41.04 98 Individual cou 0.00 0.00 0.00 0.00 0.00 0.00 cou 0.00 0.00 0.00 0.00 0.00 0.00 cou 0.00 0.00 0.00 0.00 0.00 0.00 cor 0.00 0.00 0.00 0.00 0.00 0.00 cor 0.00 0.00 0.00 0.00 0.00 0.00 0.00 cor 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 cor 0.00 0.00 0.00											
mean 95.20 90.50 4221 156.33 41.04 96 Individual nou 0.00 0.00 0.00 0.00 0.00 0 cou 0.00 0.00 0.00 0.00 0 0 cou 0.00 0.00 0.00 0.00 0 0 ce 0.00 0.00 0.00 0.00 0 0 ce 0.00 0.00 0.00 0 0 0 ce 0.00 0.00 0.00 0 0 0 ce 0.00 0.00 0.00 0 0 0 cer 0.00 0.00 0.00 0 0 0 0 cer 0.00 0.00 0.00 0.00 0	CANAG	95.20	90.50	81.00	61.90	4247	157.30	41.29	111 Individ		
100 100		85.33	05.06			4221	156.33	4.04	98 Individ		20%
100 100	Dig Calle	07.05	000			0	0.00	00.0	0	0	8
SS-20 SO-50 SO-50 Co-70 Co-7	Drown bear	8 6	000			0	0.00	0.00	0	0.0	
Concording Con	Deer	95.20	90.50			4221	156.33	4.0	98 Individ	_	20%
100 0.00 0	, H	000	00:00			0	0.00	0.00	0	90	8
Continuent Con	Goat	0.00	00:0			0	0.00	000	0	0.0	8
ref 4 80 4 80 2 6 0 96 0.25 13 individual 0 00 0 00 0 00 0 00 0 00 0 00 0 0 00 0 00 0 00 0 00 0 00 0 0 0 00 0 00 0 00 0 00 0 0 0 0 0 00 0 00 0 00 0 00 0 00 0 0 0 0 1 00 00 95.20 95.20 4968 184.00 48.30 89 individual 98 individual 98 individual 98 individual 98 individual 54 individual 55 individual 55 individual <td>Moose</td> <td>0.0</td> <td>0.00</td> <td></td> <td></td> <td>0</td> <td>0.00</td> <td>0.00</td> <td>0</td> <td></td> <td></td>	Moose	0.0	0.00			0	0.00	0.00	0		
0.00 0.00 <td< td=""><td>Small Game/Furbearer</td><td>4.80</td><td>4.80</td><td></td><td></td><td>58</td><td>96.0</td><td>0.25</td><td>13 Individ</td><td></td><td>92%</td></td<>	Small Game/Furbearer	4.80	4.80			5 8	96.0	0.25	13 Individ		92%
0.00 0.00 <td< td=""><td>Fox</td><td>0.00</td><td>00:00</td><td></td><td></td><td>0</td><td>0.00</td><td>0.00</td><td>0</td><td>). O</td><td>8</td></td<>	Fox	0.00	00:00			0	0.00	0.00	0). O	8
4 80 4 80 26 0.96 0.25 13 Individual 0 000 0.00 0.00 0.00 0.00 0 0 000 0.00 0.00 0.00 0 0 1 00 00 95.20 5768 584.00 153.30 143 Individual 1 00 00 95.20 4968 184.00 48.30 89 Individual 1 00 00 95.20 4968 184.00 48.30 89 Individual 1 00 00 95.20 66.70 0.800 400.00 105.00 54 Individual 9 50 95.0 95.0 1380 51.11 13.42 1587 Individual 4 1 00.00 95.0 95.0 103 3.81 1.00 148 Individual 4 1 00.00 95.20 95.20 103 11.34 11.12 Individual 4 1 00.00 95.20 66.70 53.78 6.74 11.94 11.12 Individual 4 1 00.00 95.0 95.0 <td< td=""><td>Beaver</td><td>0.00</td><td>00.0</td><td></td><td></td><td>0</td><td>0.00</td><td>0.00</td><td>0</td><td></td><td></td></td<>	Beaver	0.00	00.0			0	0.00	0.00	0		
0.00 0.00 <th< td=""><td>i est</td><td>80</td><td>4.80</td><td></td><td></td><td>92</td><td>96.0</td><td>0.25</td><td>13 Individ</td><td></td><td>92%</td></th<>	i est	80	4.80			92	96.0	0.25	13 Individ		92%
000 000 0 <td>and Offer</td> <td>000</td> <td>00.00</td> <td></td> <td></td> <td>0</td> <td>0.00</td> <td>0.00</td> <td>0</td> <td>0.0</td> <td>8</td>	and Offer	000	00.00			0	0.00	0.00	0	0.0	8
100.00 95.20 5768 584.00 153.30 143 Individual 100.00 95.20 4968 184.00 48.30 89 Individual 100.00 95.20 66.70 0800 400.00 105.00 54 Individual 76.20 66.70 76.20 61.90 1380 51.11 13.42 1587 Individual 54 Individual 9.50 9.50 103 3.81 1.00 148 Individual 4 100.00 95.20 9.50 1228 45.48 11.94 1112 Individual 4 100.00 95.20 9.50 19.70 5.17 859 Individual 3 100.00 95.20 9.50 19.70 5.17 859 Individual 3 100.00 95.20 9.50 9.50 19.70 5.17 859 Individual 3 100.00 95.20 9.50 9.50 1.81 0.48 327 Individual 1 85.70 90.50 9.50 9.50	Wease	00.0	00.00			0	0.00	0.00	0		
100.00 95.20 4968 184.00 48.30 89 Individual 100.00 95.20 66.70 4968 184.00 48.30 89 Individual 76.20 66.70 00.00 76.20 61.90 1380 51.11 13.42 1587 Individual 54 Individual 55 Individual 55 Individual 54 Individual 55 Individual	MARINE MAMMAIS	100.00	95.20			2768	584.00	153.30	143 Individ		
100.00 95.20 4968 184.00 48.30 89 Individual 76.20 66.70 0800 400.00 105.00 54 Individual 55 Individual 100.00 9.50 9.50 103 3.81 1.00 148 Individual 4 100.00 95.20 9.50 1228 45.48 11.94 1112 Individual 4 71.40 66.70 532 19.70 5.17 859 Individual 3 85.70 90.50 49 1.81 0.48 327 Individual 1 85.70 90.50 49 1.81 0.48 327 Individual 1 95.20 90.50 49 1.81 0.48 327 Individual 1 85.70 90.50 90.50 49 1.81 0.48 327 Individual 1 95.20 95.20 95.20 95.30 95.7 172 SGal Bckt 16 95.20 95.20 95.30 95.7 122 SGal Bckt 16 <t< td=""><td>Sea.</td><td>100 00</td><td>95.20</td><td></td><td></td><td>4968</td><td>184.00</td><td>48.30</td><td>89 Individ</td><td></td><td></td></t<>	Sea.	100 00	95.20			4968	184 .00	48.30	89 Individ		
76.20 66.70 0800 400.00 165.00 54 Individual 100.00 0.00 76.20 61.90 1380 51.11 13.42 1587 Individual 5 9.50 9.50 103 3.81 1.00 148 Individual 4 100.00 95.20 1228 45.48 11.94 1112 Individual 4 100.00 95.20 66.70 532 19.70 5.17 253 Individual 1 85.70 90.50 49 1.81 0.48 327 Individual 1 100.00 0.000 4536 168.00 44.10 4536 Pounds 16 95.20 95.20 95.20 95.3 13.07 172 5 Gal Bckt 16 7 76.20 95.20 95.3 35.30 9.27 122 5 Gal Bckt 7 76.20 95.20 95.3 35.30 9.27 172 5 Gal Bckt 7 76.20 95.20 95.3 95.3 95.3 95.2	Harbor Seal	100 00	95.20			4968	184.00	48.30	89 Individ	_	
100.00 00.00 76.20 61.90 1380 51.11 13.42 1587 Individual 5 9.50 9.50 103 3.81 1.00 148 Individual 4 9.50 9.50 103 3.81 1.00 148 Individual 4 100.00 95.20 65.20 6.77 85.9 Individual 3 71.40 66.70 532 19.70 5.17 253 Individual 1 85.70 90.50 49 1.81 0.48 327 Individual 1 100.00 60.00 4536 168.00 44.10 4536 Pounds 16 95.20 95.20 95.20 95.3 35.30 9.27 172 5 Gal Bckt 70.00 76.50 95.20 95.3 35.30 9.27 122 5 Gal Bckt 70.00 76.50 95.3 35.30 9.27 122 5 Gal Bckt 70.50 76.50 95.30 9.27 122 5 Gal Bckt	See Lion	76.20	66.70			080	400.00	105.00	54 Individ		
9.50 9.50 103 3.81 1.00 148 Individual 10.00 9.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	BIDDS AND ECCS	200	0000	76 20	6190	1380	51.11	13.42	1587 Individ		
9.50 9.50 103 3.81 1.00 148 Individual 100.00 95.20 1228 45.48 11.94 1112 Individual 4 100.00 95.20 696 25.78 6.77 859 Individual 3 71.40 66.70 532 19.70 5.17 253 Individual 1 85.70 90.50 49 1.81 0.48 327 Individual 1 100.00 00.00 4536 168.00 44.10 4536 Pounds 16 95.20 95.20 95.20 95.3 35.30 9.27 172 5 Gal Bckt 76.50 76.50 95.30 9.27 122 5 Gal Bckt 50 5 Gal Bckt	Upland Game Birds	90°6	05.6			103	3.81	8.	148 Individ		٠
100.00 95.20 1228 45.48 11.94 1112 Individual 4 100.00 95.20 696 25.78 6.77 859 Individual 3 71.40 66.70 532 19.70 5.17 253 Individual 3 85.70 90.50 49 1.81 0.48 327 Individual 1 100.00 00.00 4536 168.00 44.10 4536 Pounds 16 95.20 95.20 95.20 95.3 35.30 9.27 172 5 Gal Bckt 76.20 95.20 95.3 35.30 9.27 122 5 Gal Bckt 76.20 76.20 50.50 50.50 Bckt	Praemican	02.6	09.6			103	3.81	9.	148 Individ		80%
100.00 95.20 696 25.78 6.77 B59 Individual 3 71.40 66.70 532 19.70 5.17 253 Individual 1 85.70 90.50 49 1.81 0.48 327 Individual 1 100.00 00.00 4536 168.00 44.10 4536 Pounds 16 95.20 95.20 95.20 95.3 172 5 Gal Bckt 172 5 Gal Bckt 200 200 200 200 200 5 Gal Bckt 200 5 Gal Bckt	Mioratory Birds	100.00	95.20			1228	45.48	± ੲ	1112 Individ	_	
71.40 66.70 532 19.70 5.17 253 Individual 85.70 90.50 49 1.81 0.48 327 Individual 1 100.00 00.00 4536 168.00 44.10 4536 Pounds 16 95.20 95.20 95.20 95.3 927 172 5 Gal Bckt 25.20 95.20 95.3 35.30 9.27 122 5 Gal Bckt 25.20 25.20 39.3 36.3 50.5 Gal Bckt	Ducks	100.00	95.20			969	25.78	6.77	859 Individ		
85.70 90.50 49 1.81 0.48 327 Individual 1 100.00 00.00 4536 168.00 44.10 4536 Pounds 16 95.20 95.20 95.20 95.3 35.30 9.27 172 5 Gal Bckt 25.20 95.20 95.3 35.30 9.27 122 5 Gal Bckt 25.20 39.1 14.48 3.80 50 5 Gal Bckt	9990	71.40	66.70			532	19.70	5.17	253 Individ		
100.00 00.00 4536 168.00 44.10 4536 Pounds 16 95.20 95.20 1344 49.78 13.07 172 5 Gal Bckt 95.20 95.20 95.3 35.30 9.27 122 5 Gal Bckt 75.70 76.70 391 14.48 3.80 50 5 Gal Bckt	Foos	85.70	90.50			49	1.81	0.48	327 Individ		
95.20 95.20 95.20 95.3 35.30 9.27 172 5 Gal Bokt 95.2 95.2 95.3 35.3 9.27 122 5 Gal Bokt 97.8 380 50 5 Gal Bokt	MARINE INVERTEBRATES	100 001	0000			4536	168.00	44.10	4536 Pounc		
122 5 Gal Bokt 25.20 95.20 95.30 9.27 122 5 Gal Bokt 390 50 5 Gal Bokt 390 50 5 Gal Bokt 390 50 5 Gal Bokt	Clams	95.20	95.20			1344	49.78	13.07	172 5 Gal		
380 50 5 Gal Bokt 1	Butter Clams	95.20	95.20			953	35.30	9.27	, 122 5 Gal		•
07.0/	Razor Clams	76.20	76.20			391	14.48	3.80	50 5 Gal	_	85 30%

Appendix Table 1. Estimated Harvest and Use of Fish, Game, and Plant Resources, Akhiok, 1982/1983

		Percen	Percentage of Households	sholde	ľ		Doingle Unapprop	100	American A		11.1 kml 1 mm 0.000
Resource Name	Use	Aft	Harv	Recv	Give	Total	Mean HH	Percapita	Total Units	Mean HH	SOR COIII. LIIIIK (*/-) Harvest
Horse Clams (Gaper)	0.00		0.00			0	0.00	00:0	0	00.0	
Crabs	95.20		90.50			1274	47.19	12.39	585 Individual	21.67	22%
Dungeness Crab	14.30		9.50			o	0.33	60.0	13 Individual	0.48	61%
King Crab	95.20		90.50			1148	42.52	11.16	499 Individual	18.48	24%
Tanner Crab	23.80		23.80			117	4.33	1.14	73 Individual	2.70	46%
Cockles	100.00		100.00			943	34.93	9.17	121 5 Gal Bckt	4.48	24%
Geoducks	0.00		00.00			0	00.0	00.0	0	00:00	
Scattops	0.0		00.00			0	00.0	00.0	0	00:00	
Mussels	00.0		00.0			0	00.0	0.00	0	00:00	
Chitons (gumboots,bidarkis)	19.00		33.30			308	11.41	2.99	40 5 Gal Bckt	1.48	57%
Octopus	71.40		76.20			422	15.63	4.10	105 Individual	3.89	27%
Sea Urchin	42.90		52.40			220	8.15	2.14	88 5 Gal Bckt	3.26	42%
Shrimp	4.80		4.80			8	96.0	0.25	26 Pounds	0.96	92%
PLANTS AND BERRIES			95.20	33.30	19.00						
Berries			95.20								
Plants/Greens/Mushrooms			71.40								
Seaweed/Kelp			00:0								
SOURCE: Alaska Department of Fish and Game Division of Subsistence Household Surveys 1083	sh and Game	DIVISION	A Subsistans	A Househ	10.00.00	1087					

Appendix Table 2. Estimated Harvest and Use of Fish, Game, and Plant Resources, Karluk, 1982/1983

ALL RESOURCES 100.00 90.00 1 FISH 100.00 90.00 1 FISH 100.00 90.00 1 Chum Salmon 90.00 85.00 1 Coho Salmon 65.00 85.00 10.00 Pink Salmon 65.00 85.00 10.00 Pink Salmon 60.00 85.00 10.00 Pink Salmon 60.00 85.00 10.00 Pink Salmon 60.00 85.00 10.00 Pink Salmon 100.00 85.00 90.00 Sockeye Salmon 100.00 85.00 90.00 Row 60.00 25.00 10.00 Sole 0.00 0.00 0.00 Halibut 90.00 0.00 0.00 Red Rockfish 70.00 50.00 Sea Bass 70.00 50.00 Unknown Rockfish 5.00 5.00	of Households darv Recv 90.00 100.00 90.00 100.00 90.00 25.00 85.00 60.00 85.00	00:06 90:06	Pounds P	Pounds Harvested				
ES 100.00 In 100.00 In 30.00 In 30.00 In 90.00 In 90.00 In 95.00 In 9	of Households darv Recv 90.00 100.00 90.00 100.00 25.00 80.00 85.00 60.00	Give 90.00	Pounds 1	larvested			_	
ES 100.00 100	90.00 100.00 90.00 100.00 90.00 100.00 25.00 80.00 60.00 85.00	6ive 90.06		A LIM Darra		Amount Harvested		95% Conf. Limit (+/-)
ES 100.00		00.06	Total Mea	11 FR 1 FOVE	_	Total Units Mean	Mean HIH	Harvest
100.00 100.00 30.00 90.00 100.00 65.00 100.00 85.00 0.00 70.00 1000 1000 1000 1000 1000		00 00	88645 34	3409.42 863	863.15	88645 Pounds 340	3409.42	13%
MON 100.00 um Salmon 30.00 ho Salmon 90.00 inook Salmon 100.00 ckeye Salmon 65.00 ckeye Salmon 100.00 d-SALMON FISH 95.00 d under 85.00 under 90.00 rring 70.00 ed Rockfish 0.00 ea Bass 70.00 nknown Rockfish 5.00	90.00 25.00 80.00 85.00 60.00	3			683.15	15919 Individual 61	612.27	15%
30.00 00	25.00 80.00 85.00 60.00 85.00		59821 23	2300.81 582	582.48	12826 Individual 49	493.31	16%
90.00 65.00 60.00 95.00 90.00 90.00 90.00 90.00 90.00 90.00	85.00 85.00 85.00 85.00		243	9.35	2.37	38 Individual	1.46	42%
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	65.00 60.00 85.00 90.00	-	13034 5	501.31 126	126.91	1908 Individual	73.38	28%
65.00 100.00 60.00 85.00 0.00 0.00 0.00 0.00 5.00	60.00 85.00 90.00		4375 1	168.27 42	42.60	482 Individual	18.54	20%
100.00 60.00 85.00 0.	85.00		5806 2	223.31 56	56.53	2207 Individual	84.88	31%
95.00 85.00 0.00 0.00 0.00 0.00 0.00 5.00 5	00:06		36364 13	1398.62 354	354.08	8190 Individual 31	315.00	16%
60.00 out 85.00 out 0.00 fish 70.00 I Rockfish 0.00 Inown Rockfish 5.00			10339 3	397.65 100	100.67	3093 Individual 11	118.96	15%
65.00 0.00 90.00 0.00 0.00 0.00 1ss 70.00 mm Rockfish 5.00	25.00		220	8.46	2.14	69 Individual	2.65	43%
0.00 90.00 0.00 ockfish 0.00 iss 70.00 mm Rockfish 5.00	70.00		2547	97.96 24	24.80	849 Individual	32.65	792
90.00 0.00 0.00 0.00 1ss 70.00 mm Rockfish 5.00	0.00		0	000	0.00	0	0.0	
0.00 ckfish 0.00 cs 70.00 ss 70.00 cs 7	50.00		4646 1	78.69 45	45.24	129 Individual	4 .96	30%
70.00 ckfish 0.00 ss 70.00 ts	000		0	000	0.00	0	0.0	
0.00	20.00		686	38.04	9.63	659 Individual	25.35	33%
70.00	000		0	000	0.0	0	0.00	
5.00	20.00		696	37.27	9.44	646 Individual	24.85	33%
	5.00		20	0.77	0.19	13 Individual	0.50	85%
Sculpin 10.00 10.00	10.00		ო	0.12	0.03	5 Individual	0.19	%09
Pollock 0.00 0.00	0.00	-	0	000	0.00	0	0.0	
Trout and Char 95.00 85.00	85.00	-	1935	74.42 18	18.84	1382 Individual	53.15	19%
Char 80.00 75.00	75.00		1511	58.12 14	14.71	1079 Individual	41.50	23%
Dolly Varden 80.00 75.00	75.00		1511	58.12 14	14.71	1079 Individual	41.50	23%
Trout 95.00 75.00	75.00		424	16.31	4.13	303 Individual	11.65	798
Steelhead 95.00 75.00	75.00		424	16.31	4.13	303 Individual	11.65	26%

Appendix Table 2. Estimated Harvest and Use of Fish, Game, and Plant Resources, Karluk, 1962/1983

		Percentage of Households	Househo	spi		Poun	Pounds Harvested	P	Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	Att Harv	2	Recv	Give	Total	Mean HH Percapita	Percapita	Total Units N	Mean HIH	Harvest
GAME	00'56	•	80.00	00:06	85.00	6842	263.15	66.62	234 Individual	9 .00	23%
Big Game	95.00	•	80.00			9029	257.92	65.30	146 Individual	5.62	19%
Brown Bear	5.00		2.00			2 6	7.50	1.90	1 Individual	0.0	100%
Caribon	20.00		2.00			390	15.00	3.80	3 Individual	0.12	%99
Deer	95.00	•	90.00			6121	235.42	59.60	142 Individual	5.46	19%
EX	0.00		0.00			0	0.00	0.00	0	000	
Goat	0.00		0.00			0	0.00	0.00	0	000	-
Moose	0.00		0.00			0	0.00	0.0	0	000	
Small Game/Furbearer	25.00	N	25.00			135	5.19	1.31	88 Individual	3.38	43%
Fox	2.00		10.00			0	0.00	0.00	8 Individual	0.31	62%
Beaver	2.00		5.00			0	0.00	0.00	3 Individual	0.12	%99
Hare	20.00	7	20.00			135	5.19	1.31	68 Individual	2.62	51%
Land Otter	2.00		2.00			0	0.00	0.00	10 Individual	0.38	100%
Weasel	5.00		0.00			0	0.00	0.00	0	0.00	
MARINE MAMMALS	00'54	9	92.00			9173	352.81	89.32	94 Individual	3.62	20%
Seal	20.00	9	00.09			3713	142.81	36.15	66 Individual	2.54	24%
Harbor Seal	20.00	9	00.09			3713	142.81	36.15	66 Individual	2.54	24%
Sea Lion	20.00	4	40.00			2460	210.00	53.16	27 Individual	2	33%
BIRDS AND EGGS	85.00	7	75.00	00:09	65.00	1149	44.19	11.19	1465 Individual	56.35	20%
Upland Game Birds	20.00	4	45.00			162	6.23	1.58	231 Individual	8.88	26%
Ptarmigan	2 0.00	4	45.00			162	6.23	1.58	231 Individual	8.88	76%
Migratory Birds	85.00	7	75.00			984	37.85	9.58	1210 Individual	46.54	21%
Ducks	85.00	7	75.00			978	37.62	9.52	1208 Individual	46.46	21%
Geese	20.00	-	10.00			ഗ	0.19	0.05	3 Individual	0.12	%99
Eggs	55.00	3	30.00			4	0.15	0.04	23 Individual	0.88	52%
MARINE INVERTEBRATES	00'06	4	20.07			1321	50.81	12.86	1321 Pounds	50.81	22%
Clams	90.00	9	00.09			603	23.19	5.87	77 5 Gai Bckt	2.96	32%
Butter Clams	85.00	ø	00:09			205	19.31	4.89	64 5 Gal Bckt	2.46	37%
Raznr Clame	30.00	2	25.00			101	3.88	0.98	13 5 Gal Bckt	0.50	53%

Appendix Table 2. Estimated Harvest and Use of Fish, D.me and Plant Resources, Karluk, 1982/1983

		Percen	Percentage of Households	polds		8	Pounds Harvested	sted	Amount Harvested	sted	95% Conf. Limit (+/-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total	Mean HH	Mean HH Percapita	Total Units	Mean HH	Harvest
Horse Clams (Gaper)			5						•		
(indee) summer as in .	3		3				3	3	9	000	
Crabs	85.00		25.00			169	6.50	1.65	120 Individual	4.62	898
Dungeness Crab	35.00		5.00			98	1.38	0.35	52 Individual	2.00	
King Crab	80:00		20.00			8	•••		35 Individual	1.35	
Tanner Crab	30.00		10.00			25			33 Individual	1.27	%99
Cockles	0.00		0.00			0			0	000	
Geoducks	5.00		5.00			20			1 5 Gal Bold	0.0	100%
Scallops	20.00		0.00			0			0	0.00	
Mussels	15.00		15.00			4	5.5		5 5 Gal Bold	0.19	38%
Chitons (gumboots,bidarkis)	75.00		65.00			210	-		27 5 Gal Bott	2	22%
Octopus	75.00		40.00		-	135			34 Individual	131	32%
Sea Urchin	65.00		90.00			143			57 5 Gal Bckt	2.19	42%
Shrimp	15.00		0.00			0			C	000	!
PLANTS AND BERRIES			95.00	70.00	35.00		l	1			
Berries			95.00								
Plants/Greens/Mushrooms	•		75.00								
Seaweed/Kelp			00:00								

Appendix Table 3. Estimated Harvest and Use of Fish, Game, and Plant Resources, Larsen Bay, 1982/1983

Estimated Number of People in Community = 178.7	
32	43
Number of Households Sampled =	Number of Households in Community *

		Percent	Percentage of Households	splo		Pour	Pounds Harvested	B	Amoun	sted	95% Conf. Limit (+/-)
Resource Name	Use	ΑĦ	Harv	Recv	Give	Total	Mean HH Percapita	Percapita	Total	Mean HH	Harvest
	900		0000	8	03.60	7,740%	1677.07	400 E4	72446 Bounds	1677 00	32%
ALL RESOURCES	100.00		93.80	80.8C	06.70	4117/	10/1/01	403.31	SMIDOL CITY	80.7.00	2 4 4
FISH	06:96		78.10	96.96	81.30	43256	1005.95	242.03	11019 Individual	256.26	22%
SALMON	06:96		71.90			30112	700.28	168.49	6734 Individual	156.60	22%
Chum Salmon	34.40		25.00			1160	26.98	6.49	180 Individual	4.19	*
Coho Salmon	8.48		62.50			7232	168.19	40.47	1059 Individual	24.63	21%
Chinook Salmon	59.40		34.40			1024	23.81	5.73	113 Individual	2.63	38%
Pink Salmon	71.90		56.30			4647	108.07	26.00	1767 Individual	41.09	30%
Sockeye Salmon	87.50		56.30			16049	373.23	89.80	3615 Individual	84.07	28%
NON-SALMON FISH	93.80		65.60			13144	305.67	73.55	4285 Individual	99.65	35%
Cod	68.80		34.40			1337	31.09	7.48	418 Individual	9.72	39%
Flounder	21.90		12.50			206	4.79	1.15	69 Individual	1.60	62%
Sole	12.50		6.30			137	3.19	0.77	137 Individual	3.19	81%
Halibut	84.40		46.90			8295	192.91	46.41	230 Individual	5.35	33%
Herring	40.60		15.60			<u>8</u>	21.88	5.27	1881 Individual	43.74	29%
Rockfish	28.10		18.80			227	5.28	1.27	120 Individual	2.79	20%
Red Rockfish	21.90		15.60			75	1.74	0.42	19 Individual	0.44	52%
Sea Bass	15.60		9.40			151	3.51	0.84	101 Individual	2.35	99%
Unknown Rockfish	0.00		00.0			0	0.00	000	0	0.00	
Sculpin	6.30		3.10			-	0.02	0.01	1 Individual	0.02	100%
Pollock	0.00		00:0			0	0.00	000	0	000	
Trout and Char	93.80		59.40			2002	46.56	11.20	1430 Individual	33.26	50%
Char	59.40		40.60			1488	34.60	8.33	1063 Individual	24.72	62%
Dolly Varden	59.40		40.60			1488	34.60	8.33	1063 Individual	24.72	62%
Trout	90.60		46.90			513	11.93	2.87	367 Individual	8.53	33%
Steelhead	90.60		46.90			513	11.93	2.87	367 Individual	8.53	33%

Appendix Table 3. Estimated Harvest and Use of Fish, Game, and Plant Resources, Larsen Bay, 1982/1983

		Percenta	Percentage of Households	spio		Poun	Pounds Harvested	<u>8</u>	Amount Harvested	/ested	95% Conf. Limit (+/-)
Resource Name	Use	₹	Harv	Recv	Give	Total	Mean HH Percapita	Percapita	Total Unit	Mean HH	Harvest
GAME	93.80		62.50	65.60	65.60	11152	259.35	62.40	359 Individual	8,35	28%
Big Game	93.80		62.50			10999	255.79	61.54	251 Individual	5.84	26%
Brown Bear	25.00		3.10			202	4.70	1.13	1 Individual	0.02	100%
Caribou	6.30		000			0	0.00	0.0	0	00.0	
Deer	93.80		62.50			10797	251.09	60.41	250 Individual	5.81	26%
EX	3.10		0.00			0	0.0	0.00	0	0.00	
Goat	0.00		00.0			0	0.00	8.0	0	0.0	
Moose	0.00		0.00			0	0.00	0.0	0	0.00	
Small Game/Furbearer	18.80		15.60			153	3.56	98.0	108 Individual	2.51	48%
Fox	3.10		3.10			0	0.0	00.0	27 Individual	0.63	100%
Beaver	0.00		0.00			•	0.00	0.0	0	0.00	
Hare	15.60		12.50			153	3.56	0.86	77 Individual	1.79	57%
Land Otter	0.00		0.00			0	0.00	0.00	0	0.00	
Weasel	6.30		6.30			0	0.0	0.00	4 Individual	0.09	75%
MARINE MAMMALS	20:00		28.10			10417	242.26	58.29	93 Individual	2.16	37%
Seal	20:00		28.10		•	3161	73.51	17.69	56 Individual	1.30	35%
Harbor Seal	20.00		28.10			3161	73.51	17.69	56 Individual	1.30	35%
Sea Lion	21.90		18.80			7256	168.74	40.60	36 Individual	0.84	20%
BIRDS AND EGGS	78.10		56.30	37.50	34.40	902	21.05	5.06	1541 Individual	35.84	31%
Upland Game Birds	15.60		9.40			29	1.56	0.37	95 Individual	2.21	84%
Ptarmigan	15.60		9.40			29	1.56	0.37	95 Individual	2.21	8 4%
Migratory Birds	71.90		20.00			762	17.72	4.26	937 Individual	21.79	36%
Ducks	71.90		20.00			756	17.58	4.23	934 Individual	21.72	36%
Geese	3.10		3.10		•	9	0.14	0.03	3 Individual	0.07	100%
Eggs	43.80		25.00			77	1.79	0.43	509 Individual	11.84	36%
MARINE INVERTEBRATES	87.50		81.30			6384	148.47	35.72	6384 Pounds	148.47	21%
Clams	78.10		78.10			2977	69.23	16.66	382 5 Gal Bold	8.88	21%
Butter Clams	78.10		78.10			2820	65.58	15.78	361 5 Gal Bold	8.40	22%
Razor Clams	25.00		18.80			157	3.65	0.88	20 5 Gal Bckt		20%

Appendix Table 3. Estimated Harvest and Use of Fish, Game, and Plant Resources, Larsen Bay, 1982/1983

					•	ŀ			
0.000		rcentage of Househo	į	Š	Pounds Harvested		Amount Harvested	sted	95% Conf. Limit (+/-)
Paragraphic and a second secon		Aff Han Rock	e d	Total	Mean HH Percapita	ercapita	Total	Mean HH	Harvest
Horse Clams (Gaper)	0.00	00:0		0	00:0	000	0	000	
Crabs	78.10	31.30		1037	24.12	580	701 Individual	16.30	35%
Dungeness Crab	53.10	25.00		208	4.84	1 16	297 Individual	9	37%
King Crab	78.10	28.10		965	13.86	3 33	259 Individual	9	2 2 6
Tanner Crab	46.90	15.60		33	9	00.	The state of the s	9 6	K :
6017000	0			707	2	3	IEUDINIDUI CAI	5.37	**************************************
Cockles	3.10	3.10		13	0.30 8.00	0.07	2 5 Gal Bckt	0.05	50%
Geoducks	3.10	00:0		0	000	000	0	000	
Scallops	15.60	9.40		8	1.88	0.45	81 Pounds	1 88	A)AK
Mussels	3.10	3.10		16	0.37	000	2 5 Gal Beld	900	100%
Chitons (gumboots,bidarkis)	53.10	20.00		7	17.07	4 1 1	04 5 Gal Bold		800
Octobris	78 10	03 63		5		,	NO BOOK	Z.13	40.0F
Suppose of the suppos	20.07	05:20		952	22.14	5.33	238 Individual	5.53	24%
Sea Urchin	53.10	53.10		482	11.21	2.70	193 5 Gal Bold	4.49	32%
Shrimp	78.10	15.60		. 26	2.19	0.53	94 Pounds	2 10	45%
PLANTS AND BERRIES		81.30 40.60	8.40						
Berries		78.10							
Plants/Greens/Mushrooms		56.30				_			
Seaweed/Kelp		6.30							
SOURCE: Alaska Department of Eish and Came, Divise	sh and Game Divis	O Chairman Landers							
SOUNCE. Maska Department of P.	ISN and Game, Divisi	ion of Subsistence, Household Surveys, 1983.	urveys, 1983.						

Appendix Table 4. Estimated Harvest and Use of Fish, Game, and Plant Resources, Old Harbor, 1962/1983

76.00 94.00

Number of Households Sampled = Number of Households in Community =

Estimated Number of People in Community = 356.21

	200	Supply to appear	pholoe		Pod	Pounds Harvested		Amount Harvested	ted	95% Conf. Limit (+/-)
		spicional in second	200				1	Total	Mean HH	Harvest
Resource Name	Use Att	Harv	Recv	e Sign	lotal	Mean HH	reicapita	I CIGNI	MCCAI III	504.50
									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0
ALL RESOURCES	100.00	100.00	91.60	27.60	174943	1861.10	491.12	174944 Pounds	1861.11	
HSIJ	98.70	96.10	69.70	73.70	107974	1148.66	303.12	20535 Individual	218.46	
SALMON	98.70	94.70			83291	886.07	233.83	16940 Individual	180.21	% 80
Chim Salmon	8.06	96.80			24565	261.33	96.89	3814 Individual	40.57	
Cobo Salmon	98.70	94.70			36131	384.37	101.43	5290 Individual	56.28	
Chinok Salmon	32.90	23.70			1010	10.74	2.84	111 Individual	1.18	
Pink Salmon	08:06	86.80			18466	196.45	51.84	7022 Individual	74.70	
Sockeye Salmon	65.80	20.00			3119	33.18	8.76	703 Individual	7.48	
NON-SALMON FISH	80.06	84.20			24683	262.59	69.29	3596 Individual	38.26	
D00	44.70	39.50			1730	18.40	4.86	541 Individual	5.76	
Florinder	2 60	2.60			259	2.76	0.73	87 Individual	0.93	
Sole	2.60	2.60			24	0.26	0.07	25 Individual	0.27	
Halibut	89.50	81.60			20182	214.70	26.66	559 Individual	5.95	
Herring	22.40	13.20			009	6.38	1.68	1200 Individual	12.77	
Rockfish	13.20	10.50			769	8.18	2.16	323 Individual	3.44	36%
Red Rockfish	02.6	7.90			455	4. 48.	1.28	114 Individual	1.21	
Sea Bass	7.90	9.9			295	3.14	0.83	197 Individual	2.10	
Unknown Rockfish	1.30	1.30			19	0.20	0.05	12 Individual	0.13	%156 %
Scutoin	7.90	9.60			49	0.52	0.14	98 Individual	• 4	
Pollock	1.30	1.30			17	0.18	0.05	12 Individual	0.13	
Trout and Char	32.90	28.90			1053	11.20	2.96	752 Individual	8.00	
Char	32.90	28.90			872	9.28	2.45	623 Individual	6.63	
Dolly Varden	32.90	28.90			872	9.28	2.45	623 Individual	6.63	,
Trout	10.50	7.90			180	1.91	0.51	129 Individual	1.37	
Steelhead	10.50	7.90			180	1.91	0.51	129 Individual	1.37	39%

Appendix Table 4. Estimated Harvest and Use of Fish, Game, and Plant Resources, Old Harbor, 1982/1983

88.20 88.20 88.20 5.30 2.60 86.80 0.00 1.30 0.00 23.70 9.20 3.90 17.10	Recv 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	64.50 64.50	2596 25686 226 2276 2277 2217 0 359 0 309		Percapita 72.98 72.11 2.61 6.25 6.25 6.25 0.00 0.00 0.00 0.00	912 Individual 9.7 539 Individual 5.7 6 Individual 0.1 513 Individual 5.4 0 0 0.0 5 Individual 0.0 372 Individual 3.3 121 Individual 3.5 25 Individual 0.2	Mean HH 9.70 9.70 0.06 0.06 0.00 0.00 3.96 1.29	Harvest 15% 50% 60% 13% 13% 40% 56% 56%
98.70 88.20 nn Bear 10.50 88.20 nou 3.90 2.60 97.40 86.80 1.30 0.00 1.30 1.30 e 0.00 0.00 Game/Furbearer 27.60 23.70 er 2.60 3.90 outer 92.0 10.50		64.50	25996 25686 928 2226 22174 0 359 0 309	276.55 273.26 9.87 23.68 235.89 0.00 3.82 0.00 3.23 3.23 3.23	72.98 72.11 2.61 6.25 6.25 0.00 0.00 0.00 0.00	912 Individual 539 Individual 6 Individual 15 Individual 0 5 Individual 0 372 Individual 25 Individual	9.70 9.70 0.06 0.16 0.00 0.00 3.96 1.29	15% 13% 50% 60% 13% 27% 40% 56% 56%
mme 98.70 88.20 nn Bear 10.50 6.30 ou 3.90 2.60 ou 97.40 86.80 1.30 1.30 0.00 se 0.00 0.00 Game/Furbearer 27.60 23.70 er 2.60 3.90 er 22.40 17.10 Otter 9.20 17.10		64.50	25996 25686 928 2226 22174 0 359 0 309	276.55 273.26 9.87 23.68 235.89 3.62 0.00 3.23 0.00 3.23 3.23	72.98 72.11 2.61 6.25 6.25 0.00 0.00 0.00 0.00	912 Individual 539 Individual 6 Individual 15 Individual 0 5 Individual 0 372 Individual 121 Individual	9.70 5.73 0.06 5.46 0.00 3.96 1.29	15% 13% 50% 60% 13% 27% 40% 56% 56%
98.70 88.2 10.50 5.3 3.90 2.6 97.40 86.6 1.30 0.0 0.00 0.0 27.60 23.7 7.90 9.2 7.90 9.2 7.90 9.2	88.20 2.60 2.60 0.00 1.30 1.30 9.20 17.10		25686 928 2226 22174 0 359 0 309	273.26 9.87 23.68 235.88 0.00 0.00 3.28 0.00 3.28 3.28	72.11 2.61 6.25 0.00 1.01 0.00 0.00 0.00	539 Individual 6 Individual 15 Individual 0 5 Individual 0 372 Individual 121 Individual	5.73 0.06 0.06 0.00 3.96 7.29	13% 50% 60% 13% 13% 80% 27% 56% 56%
10.50 3.90 97.40 1.30 0.00 27.60 7.90 22.40	5.30 2.60 86.80 0.00 1.30 1.30 9.20 3.90 17.10		928 2226 22174 0 359 0 309	23.68 235.88 0.00 3.82 0.00 0.00 3.28 3.28	261 6.25 6.22 0.00 1.01 0.00 0.00 0.00	6 Individual 15 Individual 0 513 Individual 0 5 Individual 121 Individual 25 Individual	0.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00	50% 60% 13% 13% 80% 40% 56% 56%
3.90 97.40 1.30 0.00 27.60 7.90 22.40	2.60 86.80 0.00 1.30 0.00 23.70 9.20 17.10		2226 2217 4 0 359 309 0	23.88 0.00 3.82 0.00 0.00 0.00 3.28 3.28	6.25 62.25 0.00 1.01 0.00 0.00 0.00	15 Individual 0 5 Individual 0 5 Individual 0 372 Individual 121 Individual 25 Individual	0.16 0.00 0.05 0.00 1.29 0.27	60% 13% 13% 80% 27% 40% 56%
97.40 1.30 0.00 27.60 7.90 22.40	86.80 0.00 1.30 0.00 23.70 9.20 3.90 17.10		22174 0 359 0 309 0	235.88 0.00 3.82 0.00 0.00 0.00 3.28	62.25 0.00 1.01 0.00 0.87 0.00	513 Individual 0 5 Individual 0 372 Individual 121 Individual	3.46 0.00 0.00 3.96 1.29	13% 80% 27% 40% 56%
1.30 1.30 0.00 27.60 7.90 22.40 9.20	0.00 1.30 0.00 23.70 9.20 3.90 17.10		359 309 0	0.00 3.28 0.00 3.28 3.28	0.00 1.01 0.00 0.00 0.00 0.00	0 5 Individual 0 372 Individual 121 Individual 25 Individual	0.00 0.06 3.96 1.29	80% 27% 40% 56%
1.30 0.00 27.60 7.90 22.40 9.20	1.30 0.00 23.70 9.20 3.90 17.10		359 309 0	3.82 0.00 0.00 3.28 3.28	1.01 0.00 0.87 0.00 0.00	5 Individual 0 372 Individual 121 Individual 25 Individual	0.06 3.96 1.29 0.27	80% 27% 40% 56%
0.00 27.60 7.90 2.60 22.40 9.20	0.00 23.70 9.20 3.90 17.10		300	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.87 0.00 0.00	0 372 Individual 121 Individual 25 Individual	3.96 1.29 0.27	27% 40% 56% 27%
27.60 7.90 2.60 22.40 9.20	23.70 9.20 3.90 17.10		90° 0	3.23 0.00 3.23 3.23	0.87 0.00 0.00 0.87	372 Individual 121 Individual 25 Individual	3.96 1.29 0.27	27% 40% 56% 27%
7.90 2.60 22.40 1.0tter 9.20	9.20 3.90 17.10		0	9.00 8.00 8.00 8.00	0.00 0.00 0.87	121 Individual 25 Individual	0.27	40% 56% 27%
2.60 22.40 Otter 9.20	3.90 17.10 10.50			3.29	0.00	25 Individual	0.27	56% 27%
22.40 Otter 9.20	17.10		0	3.23	0.87			27%
9.20	10.50		309			155 Individual	. 56.	
			0	0.0	000	59 Individual	0.63	33%
Weasel 1.30 1.30	1.30		0	0.00	0.00	12 Individual	0.13	91%
MARINE MAMMALS 71.10 56.60	26.60		28161	299.59	29.06	255 Individual	17.7	16%
Seal 52.60 43.40	43.40		8866	94.32	24.89	158 Individual	1.68	18%
Harbor Seal 52.60 43.40	43.40		9886	94.32	24.89	158 Individual	1.68	18%
Sea Lion 57.90 48.70	48.70		19294	205.26	54.16	96 Individual	1.02	16%
BIRDS AND EGGS 85.50 55.30	0	51.30	2272	24.17	6.38	3500 Individual	37.23	% 5
Upland Game Birds 17.10 14.50	14.50		<u>6</u>	1 .06	0.28	142 Individual	1.51	32%
Ptarmigan 17.10 14.50	14.50		9	1.06	0.28	142 Individual	1.51	32%
Migratory Birds 89.50 81.60	81.60		1991	21.18	5.59	2148 Individual	22.85	10%
Ducks 89.20 80.30	80.30		1583	16.84	4.4	1954 Individual	20.79	% 6
Geese 19.70 19.70	19.70		408	4.34	1.15	194 Individual	2.06	27%
Eggs 63.20 59.20	59.20		181	1.93	0.51	1210 Individual	12.87	12%
MARINE INVERTEBRATES 98.70 98.70	98.70		10541	112.14	29.59	10541 Pounds	112.14	8%
Clams 89.50 88.20	88.20		3488	37.11	9.79	447 5 Gal Bckt	4.76	11%
Butter Clams 88.20 86.80	86.80		3088	32.97	8.70	397 5 Gal Bckt	4.22	12%
Razor Clams 22.40 22.40	22.40		370	3.94	1.04	47 5 Gal Bckt	0.50	23%

Appendix Table 4. Estimated Harvest and Use of Fish, Game, and Plant Resources, Old Harbor, 1982/1983

		Percentage of	age of Households	holds		P	Pounds Harvested	bed	Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	Att	Harv	Recv	Give	Total	Mean HH	Percapita	Total Units	Mean HH	Harvest
Horse Clams (Gaper)	6.1		1.30			8	0.21	90.0	2 5 Gal Bold	0.02	
Crabs	77.60		64.50			2781	29.59	7.81	1615 Individual	17.18	
Dungeness Crab	40.80		32.90			321	3.41	06:0	459 Individual	4.88	22%
King Crab	73.70		61.80			2000	21.28	5.61	870 Individual	9.26	
Tanner Crab	32.90		22.40			459	4.88	1.28	287 Individual	3.05	
Cockles	67.10		65.80			1833	19.50	5.15	235 5 Gal Bckt	2.50	
Geoducks	1.30		1.30			93	0.99	0.26	6 5 Gal Bckt	90.0	
Scallops	5.30		3.90			8	0.32	90.0	30 Pounds	0.32	
Mussels	5.30		9.90			2	0.74	0.20	9 5 Gal Bckt	0.10	
Chitons (gumboots, bidarkis)	60.50		60.50			1230	13.09	3.45	158 5 Gal Bold	1.68	
Octopus	40.80		34.20			361	3.84	1.01	90 Individual	96.0	
Sea Urchin	61.80	•	60.50			421	4.48	1.18	168 5 Gal Bckt	1.79	
Shrimo	23.70		11.80			236	2.51	99.0	236 Pounds	2.51	
PLANTS AND BERRIES			84.20	25.00	9.20						
Berries		•	77.60								
Plants/Greens/Mushrooms			65.80								
Seaweed/Kelp			2.60								
	2000 7 2000		100000000000000000000000000000000000000	October	100 - Constant Delegation	4000					

SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1983.

Appendix Table 5. Estimated Harvest and Use of Fish, Game, and Plant Resources, Ouzinkie, 1982/1983

32.00 Estimated Number of People in Community 70.00	Number of Households Sampled = Number of Households in Community =
	per of Households

		Percentage of	ige of Households	holds		P	Pounds Harvested	pa	Amount Harvested		95% Conf. Limit (+/-)
Resource Name	Use	Att	Harv	Recv	Give	Total	Mean HH	Percapita	Total Units	Mean HH	Harvest
ALL RESOURCES	100.00		96.90	90.60	84.40	86395	1234.21	369.11	86394 Pounds	1234.20	31%
FISH	96.90		84.40	90.60	84.40	54944	784.91	234.74	13108 Individual	187.26	33%
SALMON	06'96		81.30			40420	577.43	172.69	7886 Individual	112.66	32%
Chum Salmon	78.10		59.40			7298	104.26	31.18	1133 Individual	16.19	43%
Coho Salmon	93.80		75.00			15030	214.71	64.21	2201 Individual	31.44	33%
Chinook Salmon	25.00		18.80			295	8.50	2.54	66 Individual	0.94	869%
Pink Salmon	75.00		62.50			3521	50.30	15.04	1339 Individual	19.13	35%
Sockeye Salmon	93.80		71.90			13976	199.66	59.71	3148 Individual	44.97	51%
NON-SALMON FISH	93.80		84.40			14524	207.49	62.05	5222 Individual	74.60	44%
Cod	75.00		53.10			1547	22.10	6.61	483 Individual	6.90	37%
Flounder	21.90		18.80			321	4.59	1.37	107 Individual	1.53	57%
Sole	3.10		3.10			Ξ	0.16	90.0	11 Individual	0.16	145%
Halibut	90.60		59.40			7897	112.81	33.74	219 Individual	3.13	30%
Herring	43.80		21.90			755	10.79	3.23	1509 Individual	21.56	86%
Rockfish	20.00		43.80			972	13.89	4.15	630 Individual	9.00	36%
Red Rockfish	3.10		3.10			4	0.63	0.19	11 Individual	0.16	145%
Sea Bass	46.90		40.60			663	9.47	2.83	442 Individual	6.31	40%
Unknown Rockfish	15.60		15.60			5 66	3.80	1.14	177 Individual	2.53	64%
Sculpin	21.90		18.80			8	1.16	0.35	162 Individual	2.31	64%
Pollock	3.10		3.10			13	0.19	90.0	9 Individual	0.13	144%
Trout and Char	78.10		65.60			2928	41.83	12.51	2091 Individual	29.87	44%
Char	75.00		62.50			2490	35.57	10.64	1778 Individual	25.40	50%
Dolly Varden	75.00		62.50			2490	35.57	10.64	1778 Individual	25.45	20%
Trout	20.00		31.30			438	6.26	1.87	313 Individual	4.47	51%
Steelhead	20.00		31.30			438	6 26	1 87	313 Individual	4.47	51%

Appendix Table 5. Estimated Harvest and Use of Fish, Game, and Plant Resources, Ouzinkie, 1982/1983

Resource Name Use Att Harv Recv GAME 90.60 62.50 84.40 Big Game 90.60 59.40 84.40 Brown Bear 0.00 0.00 0.00 Caribou 3.10 3.10 3.10 Deer 90.60 59.40 0.00 Elk 9.40 0.00 0.00 Moose 0.00 0.00 0.00 Small Game/Furbearer 50.00 40.60 40.60 Fox 6.30 6.30 40.60 Hare 50.00 40.60 0.00 Weasel 0.00 0.00 0.00 WARINE MAMMALS 53.10 31.30 Seal 50.00 31.30 Harbor Seal 50.00 9.40 Sea Lion 12.50 9.40	84.40 50.00	9211 8733 0 984 7749 0 0 0 477 477	Mean HH Percapita 131.59 39:3 124.76 37:3 14.06 4.2 14.06 4.2 110.70 33:1 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0	N = 8 8 = 8 8 8 4 8 8 4 8	Total Units 470 Individual 186 Individual 0 7 Individual 179 Individual 0 0 0 284 Individual 20 Individual 11 Individual 138 Individual	6.71 6.71 2.66 0.00 0.00 0.00 0.00 0.00 0.00 0.29 0.16 0.29	33% 32% 32% 30% 100% 145% 36%
90.60 62.50 90.60 59.40 0.00 0.00 3.10 3.10 90.60 59.40 90.60 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.10 3.10 3.10 3.10 50.00 40.60 3.10 3.10 50.00 31.30 50.00 31.30 50.00 31.30		9211 8733 0 984 7749 0 0 0 477 477		39.35 37.31 0.00 0.00 0.00 0.00 0.00 0.00	470 Individual 186 Individual 0 7 Individual 179 Individual 0 0 0 284 Individual 20 Individual 11 Individual 238 Individual	6.71 2.66 0.00 0.00 0.00 0.00 0.00 0.16 0.29 0.16	33% 32% 128% 30% 100% 145% 38%
90.60 62.50 wn Bear 0.00 59.40 wn Bear 3.10 3.10 r 3.10 3.10 t 90.60 59.40 t 90.60 59.40 t 0.00 0.00 se 0.00 0.00 se 0.00 0.00 ver 3.10 3.10 ssel 0.00 40.60 d Otter 3.10 3.10 ssel 0.00 0.00 ssel 0.00 40.60 box Seal 3.10 3.130 cor Seal 50.00 31.30 ion 12.50 9.40		9211 8733 0 984 7749 0 0 0 477 477		39.35 37.31 37.31 0.00 0.00 0.00 0.00 0.00 0.00	470 Individual 186 Individual 0 7 Individual 179 Individual 0 0 0 284 Individual 20 Individual 11 Individual 238 Individual	6.71 2.66 0.00 0.00 0.00 0.00 0.00 0.16 0.16	33% 32% 128% 30% 100% 145% 38%
ame 90.60 vn Bear 0.00 bou 3.10 r 90.60 t 90.60 t 0.00 se 0.00 se 0.00 d Otter 50.00 asel 0.00 see 50.00 f 0.00 see 50.00 f 0.00	8733 0 984 7749 0 0 0 0 477 477		37.31 0.00 4.20 0.00 0.00 0.00 0.00 0.00	186 Individual 0 7 Individual 179 Individual 0 0 0 0 284 Individual 20 Individual 11 Individual 238 Individual	2.66 0.00 0.10 0.00 0.00 0.00 0.29 0.16	32% 128% 30% 39% 100% 146%	
0.00 3.10 9.40 0.00 0.00 0.00 3.10 50.00 50.00 50.00 50.00		984 7749 0 0 777 774 0	0.00 14.06 0.00 0.00 0.00 0.00 0.00 0.00 0.00	33.11 33.11 0.00 0.00 0.00 0.00 0.00	7 Individual 179 Individual 0 0 0 0 284 Individual 20 Individual 11 Individual	0.00 0.10 0.00 0.00 0.00 0.16 0.16	128% 30% 39% 160% 145%
3.10 90.60 0.00 0.00 0.00 3.10 50.00 50.00 50.00 50.00 50.00		984 7749 0 0 777 477 0	14.06 110.70 0.00 0.00 6.81 0.00 0.00 0.00	33.11 33.11 0.00 0.00 0.00 0.00 0.00	7 Individual 179 Individual 0 0 0 284 Individual 20 Individual 11 Individual	0.10 0.00 0.00 0.00 0.00 0.16 0.16	128% 30% 39% 160% 145%
90.60 9.40 0.00 0.00 6.30 3.10 50.00 50.00 50.00 12.50		7749 0 0 477 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	33.11 0.00 0.00 0.00 0.00 0.00 0.00	179 Individual 0 0 0 284 Individual 20 Individual 11 Individual 238 Individual	2.56 0.00 0.00 0.00 0.00 0.16 0.16	30% 39% 100% 145% 38%
9.40 0.00 0.00 50.00 3.10 50.00 50.00 50.00 12.50		0 0 0 0 0 477	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0 0 0 284 Individual 20 Individual 11 Individual 238 Individual	0.00 0.00 0.00 0.20 0.16 0.16	39% 100% 145% 38%
0.00 0.00 0.00 6.30 3.10 50.00 50.00 50.00 12.50		0 0 0 0 477 0	0.00 0.00 18.80 0.00 0.00 0.00 0.00	0.0000000000000000000000000000000000000	0 0 284 Individual 20 Individual 11 Individual 238 Individual	0.00 0.00 4.06 0.29 0.16	39% 100% 145% 38%
0.00 50.00 3.10 50.00 3.10 53.10 50.00 50.00		0 477 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.	284 Individual 20 Individual 11 Individual 238 Individual	0.00 4.06 0.29 0.16 0.29	39% 100% 145% 38% 146%
50.00 3.10 50.00 3.10 0.00 50.00 50.00 12.50		477 0 0 774 0	6.84 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	284 Individual 20 Individual 11 Individual 238 Individual	4.06 0.29 0.16 3.40	39% 100% 145% 38% 146%
6.30 3.10 50.00 3.10 53.10 50.00 50.00		0 0 477 0	0.00 6.81 0.00 0.00	0.00	20 Individual 11 Individual 238 Individual	0.29 0.16 3.40 0.21	100% 145% 38% 146%
3.10 50.00 3.10 53.10 50.00 12.50		477 0	0.00 6.81 0.00 0.00	0.00	11 Individual 238 Individual	0.16 3.40 0.21	145% 38% 146%
50.00 3.10 0.00 53.10 50.00 50.00		477 0 0	6.81 0.00 0.00	0.00	238 Individual	3.40	38% 146%
3.10 0.00 53.10 50.00 50.00		0 0	0.00	0.00		0.21	146%
53.10 50.00 50.00 12.50		0	000		15 Individual		
53.10 50.00 50.00 12.50				00.0	0	0.00	
50.00 50.00 12.50		7578	108.26	32.38	107 Individual	1.53	58%
50.00 50.00 Lion 12.50		5390	77.00	23.03	96 Individual	1.37	898
12.50		5390	77.00	23.03	96 Individual	1.37	. 56%
		2188	31.26	9.35	· 11 Individual	0.16	%06
BIRDS AND EGGS 90.60 71.90 84.40	84.40 59.40	2829	40.41	12.09	4465 Individual	63.79	32%
Upland Game Birds 3.10 0.00		0	0.00	0.00	0	0.00	
		0	0.00	0.00	0	0.00	
Migratory Birds 90.60 68.80		2583	36.90	11.04	2826 Individual	40.37	38%
Ducks 87.50 68.80		2105	30.07	8.99	2599 Individual	37.13	37%
		478	6.83	2.04	228 Individual	3.26	138%
		246	3.51	1.05	1638 Individual	23.40	36%
MARINE INVERTEBRATES 100.00 93.80		11834	169.06	50.56	11834 Pounds	169.06	45%
Clams 87.50 75.00		2398	34.26	10.25	307 5 Gal Bckt	4.39	34%
Butter Clams 87.50 75.00		2321	33.16	9.92	298 5 Gal Bckt	4.26	35%
		\$	0.61	0.18	5 5 Gal Bckt	0.07	100%

Appendix Table 5. Estimated Harvest and Use of Fish, Game, and Plant Resources, Ouzinkie, 1982/1983

		Percent	Percentane of Households	splods			Pounds Harvester		CARAMEH WINDHA	Į.	105% Coof (imit (+L)
Resource Name	Use	Att	Harv	Recv	Give	Total	Mean HH	Percapita	Total Units	Mean HH	Harvest
Horse Clams (Gaper)	3.10		3.10			¥	0.49	0.15	4 5 Gal Bold	90.0	150%
Crabs	93.80		53.10			4896	69.94	20.92	2542 Individual	36.31	
Dungeness Crab	65.60		34.46			346	4.94	1.48	494 Individual	7.06	
King Crab	90.60		20.00			4186	29.80	17.88	1820 Individual	26.00	
Tanner Crab	68.60		31.30			364	5.20	1.56	228 Individual	3.26	
Cockles	43.80		34.40			469	0.70	2.00	60 5 Gal Bckt	98.0	%95
Geoducks	9.40		9.40			95	13.59	4.06	63 5 Gal Bckt	06:0	101%
Scallops	9.40		6.30			4	0.59	0.18	42 Pounds	09.0	
Mussels	18.80		18.80			137	1.98	0.59	18 5 Gal Bckt	0.26	
Chitons (gumboots,bidarkis)	71.90		68.80			2346	33.51	10.02	301 5 Gal Bold	4.30	•
Octopus	59.40		37.50			473	97.9	2.02	118 Individual	1.69	
Sea Urchin	15.60		12.50		-	98	0.51	0.15	14 5 Gal Bold	0.20	
Shrimp	21.90		9.40			88	1.26	0.38	88 Pounds	1.26	
PLANTS AND BERRIES			878	86.57	86.54						
Berries			90.60								
Plants/Greens/Mushrooms			87.50								
Seaweed/Kelp			21.90								
SOURCE: Alaska Department of Fish and Game. Division of Sut	h and Game.	Division o	Subsistence	e Househo	osistence. Household Surveys 198	1083					

Appendix Table 6. Estimated Harvest and Use of Fish, Game, and Plant Resources, Port Lions, 1982/1983

55.00 89.00

Number of Households Sampled = Number of Households in Community =

Estimated Number of People in Community * 289.65

		Darrentane	splodesing Jo en	spio		Po	Pounds Harvested	9	Amount Harvested		35% Conf. Limit (+/-)
Resource Name	Use	Att	larv	Recv	Give	Total	Mean HH	Percapita	Total Units	Mean HH	Harvest
390010390 114	100,00		25	83.60	76.40	81044	910.61	279.80	81044 Pounds	910.61	15%
ALL NESCONCES	0000		89 10	80 00	74.50	57071	641.25	197.03	7906 Individual	88.83	16%
NOM IAS	100 00		81.80			28490	320.11	98.36	5429 Individual	61.00	17%
Chum Salmon	21.80		14.50			917	10.30	3.17	142 Individual	1.60	26%
Coho Salmon	89.10		72.70			15197	170.75	52.47	2225 Individual	25.00	19%
Chinook Salmon	34.50		14.50			352	3.96	1.22	39 Individual	44.0	46%
Pink Salmon	61.80		20.90			2030	22.81	7.01	772 Individual	8.67	28%
Sockeve Salmon	98.20		00.09			9884	112.29	34.50	2251 Individual	25.29	25%
NON-SALMON FISH	98.20		76.40			28581	321.13	28.67	2477 Individual	27.83	24%
000	67.30		49.10			2040	22.92	7.04	. 638 Individual	71.17	. 40%
Flounder	5.50		7.30			126	1.42	4.0	42 Individual	0.47	64%
Sole	1.80		1.80			13	0.15	0.0	13 Individual	0.15	123%
Halibut	96.40		67.30			24827	278.96	85.71	688 Individual	7.73	27%
Herring	5.50		1.80			3	90.0	0.02	11 Individual	0.12	127%
Rockfish	18.20		16.40			59	6.64	2.04	372 Individual	4.18	29%
Red Rockfish	1.80		1.80			25	0.58	0.18	13 Individual	0.15	123%
Sea Bass	14.50		14.50			53	5.97	1.83	354 Individual	3.98	61%
Unknown Rockfish	3.60		1.80			7	90.0	0.02	5 Individual	90.0	120%
Sculpin	5.50		7.30			12	0.13	90.0	23 Individual	0.26	%69 %
Pollock	00:00		0.00			0	0.00	0.00	0	0.00	
Trout and Char	32.70		34.50			296	10.87	3.34	691 Individual	7.76	36%
Char	27.30		34.50			976	10.40	3.20	662 Individual	4.7	37%
Dolly Varden	27.30		34.50			926	10.40	3.20	662 Individual	4.7	37%
Trout	9.10		3.60			4	0.46	0.14	29 Individual	0.33	86%
Steelhead	9.10		3.60			41	0.46	0.14	29 Individual	0.33	86%

Appendix Table 6. Estimated Harvest and Use of Fish, Game, and Plant Resources, Port Lions, 1982/1983

		Percentag	Percentage of Households	splo		g	Pounds Harvested	8	Amount Harvested	arvested	% 96%	95% Conf. Limit (+/-)
Resource Name	Use.	Att	Harv	Recv	Give	Total	Mean HH	Percapita	Total	Units Mean HH	王	Harvest
GAME	78.20		67.30	47.30	47.30	10506	118.04	36.27	557 Individual	leal	6.26	%96
Big Game	76.40		63.60			10067	113.11	34.76	233 Individua	_	2.62	20%
Brown Bear	0.00		0.00			0	0.00	0.00	0		0.00	
Caribon	14.50		0.00			0	0.00	0.00	0		0.00	
Deer	76.40		63.60			10067	113.11	34.76	233 Individual	_	2.62	20%
Ë	14.50		0.00			0	0.00	0.00	0		0.00	
Goat	00.0		0.0			0	0.00	0.00	0		0.00	
Moose	0.00		0.00			0	0.00	0.00	•			_
Small Game/Furbearer	30.90		25.50			4	4.96	1.52	324 Individua	_	3.64	51%
Fox	0.00		3.60			0	0.00	0.00	104 Individual	leal	1.17	113%
Beaver	0.00		0.00			0	0.0	0.00	0		0.00	
Hare	30.90 30.90		25.50			<u>4</u>	4.96	1.52	220 Individual		2.47	45%
Land Otter	0.00		0.00			0	0.00	0.00	0		0.00	
Weasel	1.80		00:00			0	00:00	0.00	0	***	0.00	
MARINE MAMMALS	9.10		9.10			2343	26.33	8.09	21 Individua		0.24	61%
Seal	9.10		7.30			725	8.15	2.50	13 Individua	_	0.15	%69 *
Harbor Seal	9.10		7.30			725	8.15	2.50	13 Individua	_	0.15	%69 *
Sea Lion	0.00		1.80			1618	18.18	5.59	8 Individual		0.09	125%
BIRDS AND EGGS	76.40		61.80	49.10	34.50	765	8.60	2.64	1055 Individua		11.85	32%
Upland Game Birds	3.60		3.60			17	0.19	90.0	24 Individua		0.27	9. 19.
Ptarmigan	3.60		3.60			17	0.19	90.0	24 Individual	_	0.27	91%
Migratory Birds	76.40		90.09			728	8.18	2.51	893 Individual		10.03	34%
Ducks	76.40		58.20			721	8.10	2.49	890 Individual		10.00	34%
Geese	0.00		1.80			7	0.08	0.02	3 Individual		0.03	133%
Eggs	20.00		12.70			20	0.22	0.07	138 Individua	lual	1.55	47%
MARINE INVERTEBRATES	100.00		92.70			10358	116.38	35.76	10358 Pounds		116.38	17%
Clams	92.70		87.30			2840	31.91	9.80	364 5 Gal Bckt		4.09	14%
Butter Clams	92.70		87.30			2575	28.93	8.89	330 5 Gal Bckt		3.71	13%
Razor Clams	20.00		12.70			190	2.13	0.66	24 5 Gal Bokt	Bckt	0.27	54%

120% 43% 43% 30% 41% 72% 120% 36% 31% 53% 95% Conf. Limit (+/-) Harvest 55 55 55 55 55 55 55 55 2.35 14.08 3.06 1.02 0.83 0.92 0.32 1.57 0.38 0.01 Percapita Pounds Harvested 0.04 1.08 5.11 2.69 1.25 4.55 3.00 8.63 2.63 3.64 8.63 8.63 96.6 3.33 Mean HH 4079 296 296 267 88 Total Seaweed/Kelp
SOURCE: Alaska Department of Fish and Game, Division of Subsistence, Household Surveys, 1983. 25.50 Give 34.50 Percentage of Households 32.70 18.20 7.30 1.80 30.90 30.90 9.10 3.60 85.50 80.00 1.80 63.60 38.20 56.40 20.00 56.40 1.80 Har∨ 98.20 54.50 20.00 5.50 18.20 9.10 38.20 43.60 3.60 100.00 54.50 Use Chitons (gumboots, bidarkis) Plants/Greens/Mushrooms PLANTS AND BERRIES Horse Clams (Gaper) **Dungeness Crab** Tanner Crab Resource Name King Crab Sea Urchin Geoducks Octopus Cockles Scallops Mussels Shrimp Crabs Berries

Appendix Table 6. Estimated Haivest and Use of Fish, Game, and Plant Resources, Port Lions, 1982/1983

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APPENDIX C. 1982/83 AND 1988 KODIAK ISLAND HARVEST SURVEY CONVERSION FACTORS

	1000	1983	1000	1986
_	1983	Conversion	1986	Conversion
Resource	units .	factor	Units	Factor
Sea Li on	I ndi vi dual	200.	Pounds/I ndi vi dual	170.1 (Survey Specific)
Harbor Seal	I ndi vi dual	45.	Pounds/I ndi vi dual	63.7 (Survey Specific)
Black Fin Whale			Pounds/I ndi vi dual	na
Ducks	I ndi vi dual	2.5	I ndi vi dual	2.5
Egg s	I ndi vi dual	0.05	I ndi vi dual	0.05
Geese	I ndi vi dual	5.	I ndi vi dual	5.0
Ptarmigan	I ndi vi dual	0.7	I ndi vi dual	0.7
Clams, Razor	5 gal bkt	7.8**	6 gal bkt	9.4
Clams, Butter	5 gal bkt	7.8**	6 gal bkt	9.4
Clams, Horse	5 gal bkt	7.8**	6 gal bkt	9.4
Oungeness	I ndi vi dual	0.7	I ndi vi dual	0.7
King Crab	I ndi vi dual	2.3	I ndi vi dual	2.3
Tanner Crab	I ndi vi dual	1.6	Individual	1.6
Cockl es	5 gal bkt	7.8**	6 gal bkt	9.4
Geoducks	5 gal bkt	7.8**	I ndi vi dual	0.5 (Port Graham 1961)
Gumboots (chitons)	5 gal bkt	7.8 **	6 gal bkt	9. 4
Mussels	5 gal bkt	7.8**	6 gal bkt	9. 4
octopus	I ndi vi dual	4.	I ndi vi dual	4.0
Scallops	Pounds	1.	Pounds	na
Sea Urchi n	5 gal bkt	7.8**	6 gal bkt	9.4
Abal one			6 gal bkt	6.0 (Kl awock 1964)
Peri wi nkl es/Snails			Quarts	0. 4
Sea cucumbers			Quarts	1.0
Chi namen's Caps			Quarts	0. 4
Shri mp	Pounds	1.	Pounds	na
Berri es			Quarts	1.0
Kel p			Pounds	na
Other Plants			Quarts	1.0

^{**} Invertebrate conversion factor reported as 5.0 in the 1983 report; 7.6 was actually in used in processing the survey information.